

WASHINGTON STATE  
DEPARTMENT OF ECOLOGY

# Dangerous Waste Annual Report

## **Book 2** Guidebook and Codes

*For use with Annual Reporting Forms  
and Instructions, beginning in 2001*

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**Please save this book for future use.**

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# TABLE OF CONTENTS

<b>Introduction .....</b>	<b>1</b>
What does this book do? .....	1
How to use this book .....	1
 <b>Helpful Hints</b>	
#1: What is a dangerous waste? .....	2
#2: What is a Washington-State only dangerous waste? .....	3
#3: What dangerous wastes do I count? .....	3
#4: Quantity Exclusion Limits (QELs) .....	3
#5: Defining generator status .....	4
#6: Converting quantities to/from pounds .....	5
#7: Reporting non-recurrent or periodic waste generation .....	7
#8: Reporting international shipments .....	8
#9: Reporting special waste shipments .....	9
#10: Excluded Categories of Waste .....	9
 <b>Forms Preparation Worksheets .....</b>	<b>11</b>
Worksheet #3: Reporting Lab Packs in the Annual Report .....	11
Worksheet #4: Identifying a Dangerous Waste Management System .....	12
Worksheet #5: Recycling Credit (Optional) .....	14
Worksheet #6: Extended Storage .....	17
Worksheet #7: Reporting Waste Managed On-Site .....	20
 <b>Definitions .....</b>	<b>23</b>
 <b>Codes .....</b>	<b>31</b>
Standard Industrial Classification (SIC) Codes .....	31
Source Codes .....	48
Form Codes .....	49
Origin Codes .....	51
System Codes .....	52
 <b>Quantity Exclusion Limits .....</b>	<b>54</b>



# GUIDEBOOK INTRODUCTION

## What does this book do?

This book provides you with hints, worksheets, definitions, and codes that will help you complete the Annual Report forms. Refer to this book as you complete the forms.

## How to use this book

This book, *Book 2: Guidebook and Codes*, is designed to work in conjunction with *Book 1: Forms and Instructions*.

Book 1 provides you with all of the basic information that you need to decide whether you are required to complete these forms. It also contains the forms themselves and detailed instructions on how to complete them.

Book 2 provides more in-depth information that you might need to complete the forms. Specifically, it provides information in four areas:

- **Helpful Hints (pages 2-10)**  
The *Helpful Hints* section provides guidance on specific issues that you may run across in completing the forms. For example, it has a section on “What is a dangerous waste” that will help you determine whether you are handling a dangerous waste that you must report; and a section on “Defining generator status”.
- **Worksheets (pages 11-22)**  
The *Worksheets* provide specific guidance on completing certain aspects of the forms. Worksheet #3 addresses how to report lab packs in the Annual Report forms. Worksheet #4 explains how to identify a dangerous waste management system. Worksheet #5 explains how generators may obtain recycling credits. Worksheet #6 explains how TSDRs that hold storage permits should report extended storage.

- **Definitions (pages 23-29)**

In completing the forms, you may run across a number of words or terms that you do not recognize or words that have a specific meaning for the purpose of these forms. These terms are explained in the *Definitions* section of this book.

- **Codes (pages 31-56)**

On certain forms, you will be asked to enter a code describing, for example, the form of the waste you generated or how that waste was managed. The *Codes* section of this book provides all of the codes you will need for the purpose of filling out these forms.

- **QELs (pages 54-56)**

You may need to know the quantity exclusion limits (QELs) of your dangerous wastes to determine your generator status. See Worksheet #1 on page 7 of *Book 1: Forms and Instructions*.

*NOTE: This book was prepared to provide general guidance to help you prepare your Annual Report forms. The information is **not** designed to provide strict legal interpretations of the terms and requirements contained in the forms, and is **not legally binding**. Refer to Chapter 173-303 WAC for precise legal wording and direction on designating your dangerous waste and complying with dangerous waste regulatory requirements.*

# HELPFUL HINTS

## #1: What is a dangerous waste?

Generators are responsible for designating or identifying the regulated dangerous properties of their wastes. Designate at the point when a material becomes a waste - not when you fill out your annual report. Sometimes generators over designate or under designate their waste, so this guidance is provided to help you know when you can stop the designation process.

If you have a solid waste that is already known to not be a dangerous waste (for example cardboard), or a dangerous waste that is excluded or exempted from the dangerous waste regulations you do not have to designate it or report it.

### When can I stop designation?

Go through the following designation steps in order and record each waste number that is assigned to your waste. Additional designation testing may be required by Ecology in specific circumstances.

Refer to WAC 173-303-070 for the regulation detailing how to determine whether your waste is a dangerous waste. To designate your waste, you must follow a series of procedures, as described generally here and referenced in Chapter 173-303 WAC.















### DW/EHW Designation of Dangerous Waste:

When you designate your waste, you must determine whether the waste is DW (a dangerous waste) or EHW (extremely hazardous waste). Generators

and TSDR facilities need to designate the wastes they generate and/or manage as DW or EHW because it affects how the waste may be handled.

DW and EHW designation depend on the waste codes a waste is assigned. Each WAC section describing designation steps also tells you which codes if any, are EHW. Refer to sections -081, -082, -090, -100, -104, and -180 of WAC 173-303 for guidance.

Lab packs of waste may use the waste codes WL02 for DW wastes, or WL01 for EHW wastes.

Basic Designation – Choose either 1 or 2 of the following			
1	For a <b>listed discarded chemical product</b> , or a <b>mixture of solid waste + a listed discarded chemical product</b> described in WAC 173-303-081: <ul style="list-style-type: none"><li>• <b>Check</b> the listings in WAC 173-303-9903</li><li>• <b>If found</b>, apply the waste code (for example P023 or U001).</li></ul>	If found on the discarded product lists, will it also be land disposed?	
		Yes,  to 3	 No, unless <b>Special Conditions</b> apply
2	Is the waste a <b>listed source</b> , or a <b>mixture of solid waste and a listed source</b> described in WAC 173-303-082? <ul style="list-style-type: none"><li>• <b>Check</b> the listings in WAC 173-303-9904</li><li>• <b>If found</b>, apply the waste code (for example F001, K048 or W001).</li></ul>	If found on the source lists, will it also be land disposed?	
		Yes,  to 3	 No, unless <b>Special Conditions</b> apply
3	Does the waste have any of the following <b>characteristics</b> ? <ul style="list-style-type: none"><li>• <b>Check</b> WAC 173-303-090</li><li>• <b>Ignitable</b>, apply waste code D001.</li><li>• <b>Corrosive</b>, apply waste code D002.</li><li>• <b>Reactive</b>, apply waste code D003.</li><li>• <b>Toxic by the TCLP test</b>, waste codes D004 through D043.</li></ul>	Yes or No,  to <b>Special Conditions</b>	
Special Conditions – For waste that designated on Steps 1 through 3			
A	Are you an <b>SQG</b> (small quantity generator), and is <b>all</b> your waste DW with a 220 pounds QEL (quantity exclusion limit)?	Yes,  to 4 Find out if the waste is WT01 EHW Criteria.	No,  to B
B	Is the waste <b>discharged to a POTW</b> (publicly owned treatment works) <b>operating under PBR</b> (permit by rule) and is it DW?	Yes,  to 4 and/or 5 Find out if the waste is WT01, WP01 or WP03 EHW Criteria.	No,  to C
C	Is it a <b>State Only DW</b> (W001, WSC2, WT02 or WP02) and the waste will be either <b>burned for energy recovery as used oil</b> , or <b>land disposed within the state</b> ?		 if the waste is listed or characteristic and none of the <b>special conditions</b> apply
State Criteria Designation – For waste that did not designate on Steps 1, 2, or 3, or waste that met a Special Condition above			
4	Is it a state <b>toxic criteria</b> waste described in WAC 173-303-100?	No,  to 5	Yes, 
5	Is it a state <b>persistence criteria</b> waste described in WAC 173-303-100?	No, 	Yes, 

## #2: What is a Washington state-only dangerous waste?

A Washington state-only dangerous waste is a dangerous waste that is regulated by the State of Washington (Dangerous Waste Regulations), not by the federal EPA (RCRA Regulations).

The following waste codes identify Washington state-only dangerous wastes. If the dangerous waste you generate designates with one or more of these waste codes, you should list the code(s) in question A-4 of the GM Form. If you are a TSDR and the waste you receive designates with one or more of these waste codes, you should list the code(s) in question 4 of the WR Form.

The following generic dangerous waste codes, per WAC 173-303-082, 090, 100, 104, 180, and 9904 are considered to be Washington state-only dangerous waste:

WL01	lab pack waste, EHW*
WL02	lab pack waste, DW*
WT01	toxic dangerous waste, EHW
WT02	toxic dangerous waste, DW
WP01	persistent dangerous wastes/halogenated organic compounds, EHW
WP02	persistent dangerous wastes/halogenated organic compounds, DW
WP03	persistent dangerous wastes/polycyclic aromatic hydrocarbons, EHW
W001	Wastes that designate as state-specific PCB sources, identified in WAC 173-303-9904, DW
WSC2	solid or semi-solid corrosive waste identified in WAC 173-303-090 (6)(a)(iii), DW

\* If you have a labpack waste see page 11.

## #3: What dangerous wastes do I “count” as being generated for the purposes of completing these forms?

To complete the Annual Report forms, you must be able to count the wastes you have generated. Proper counting will ensure that (1) you correctly identify your generator status (see Helpful Hint #5) for purposes of complying with regulatory requirements as well as completing the Annual Report forms; and (2) that you report your waste quantities accurately on the forms.

Ecology has developed guidance on how to count generation and recycling of dangerous waste. The guidance is intended to help generators in determining their appropriate generator status for regulatory compliance purposes and for completing the Annual Report forms. To request Publication #98-414, Counting Dangerous Waste Under the Dangerous Waste Regulations, please call Ecology at 1-800-874-2022 (within state) or (360) 407-6170.

## #4: Quantity Exclusion Limits (QELs)

The Quantity Exclusion Limit (QEL) of a waste is the generation quantity per batch or per month at which the waste becomes regulated as a dangerous waste. This means that the QEL determines whether the waste is subject to the handling provisions that apply to Small Quantity Generators (SQGs), Medium Quantity Generators (MQGs), or Large Quantity Generators (LQGs). In this manner, the QELs of the wastes you generate determine your generator status—that is, whether you are an SQG, MQG, or LQG. SQGs are those generators who never exceed the QEL for the wastes that they generate and are regulated by a set of reduced dangerous waste regulations.

There are two QELs: 220 pounds per batch or per month for most dangerous wastes, and 2.2 pounds per batch or per month for certain other dangerous wastes.

To determine whether the waste quantities you generate are regulated, first identify which QEL applies to each waste (see the QEL list on pages 54-56 of this book). Then add the quantities of waste you generated with common QELs (i.e., all the wastes you generated with a QEL of 220 pounds or all the wastes you generated with a QEL of 2.2 pounds). If the total exceeds the QEL, then you have generated regulated quantities of dangerous waste and are considered either an MQG or an LQG, depending on the volume of waste generated.

Refer to Helpful Hint #5, which follows, for discussion of using the QELs to determine your generator status.

### #5: Defining generator status: Large Quantity Generators (LQGs), Medium Quantity Generators (MQGs), and Small Quantity Generators (SQGs)

There are three categories of hazardous waste generator: Small Quantity Generator (SQG), Medium Quantity Generator (MQG), and Large Quantity Generator (LQG). Your generator status (SQG, MQG, or LQG) is determined based on how much waste of a particular Quantity Exclusion Limit (QEL), you generate in a calendar month, or accumulate at any given time. The QEL of a waste tells you whether the quantity you generate is regulated under the requirements for MQGs or LQGs. To determine your generator status, you must identify the QEL that applies to your waste(s). Please refer to Helpful Hint #4, above, for a complete discussion of QELs.

Note that your generator status, for regulatory compliance purposes, may change from month to month. However, **for purposes of completing the Annual Report forms**, your generator status is defined based on the most dangerous waste you generated in any one month, or accumulated at any given time during the reporting year. Thus, if you were an MQG for 11 months in the reporting year and an LQG for one month in the reporting year, you need to report as an LQG on the Annual Report forms.

#### ■ Large Quantity Generator (LQG)

You are an LQG if you:

- **generate**, in any one calendar month, 2,200 pounds or more of dangerous waste(s) with a QEL of 220 pounds, and/or
- **accumulate**, at any time, 2,200 pounds or more of dangerous waste(s) with a QEL of 220 pounds, OR
- **generate**, in any one calendar month, 2.2 pounds or more of dangerous waste(s) with a QEL of 2.2 pounds, and/or
- **accumulate**, at any time, 2.2 pounds or more of dangerous waste(s) with a QEL of 2.2 pounds.

#### ■ Medium Quantity Generator (MQG)

You are an MQG if you:

- **generate**, in any one calendar month, 220 pounds or more, but less than 2,200 pounds, of dangerous waste(s) with a QEL of 220 pounds, and/or
- **accumulate**, at all times less than 2,200 pounds of dangerous waste(s) with a QEL of 220 pounds.

#### ■ Small Quantity Generator (SQG)

You are an SQG (also called conditionally exempt generator) if you:

- **generate**, in each calendar month, less than 220 pounds of dangerous waste(s) with a QEL of 220 pounds, and
- **accumulate**, at all times, less than 2,200 pounds of dangerous waste(s) with a QEL of 220 pounds, OR
- **generate**, in each calendar month, less than 2.2 pounds of dangerous waste(s) with a QEL of 2.2 pounds, and
- **accumulate**, at all times, less than 2.2 pounds of dangerous waste(s) with a QEL of 2.2 pounds.

**Example 1:** You generated 120 pounds of F001 waste and 200 pounds of F005 waste, each with a QEL of 220 pounds. Your aggregate monthly generation was 320 pounds. That 320 pounds exceeds the 220 pound QEL. That means that **ALL** dangerous wastes that you have on-site are now regulated as MQG waste.

**Example 2:** You generated 1 pound of F020 waste, which has a QEL of 2.2 pounds, and 250 pounds of a F001 waste, which has a QEL of 220 pounds. Thus, you did **NOT** exceed the QEL of the F020 waste, but you **DID** exceed the QEL for the F001 waste. Because you exceeded the QEL for one waste, **ALL** of your wastes are now regulated, both the F020 waste **AND** the F001 waste, as MQG waste.

**Example 3:** At the beginning of the month, you generated and sent off-site for management 100 pounds of F001 waste, with a QEL of 220 pounds. Later that month, you generated and sent off-site another 150 pounds of the F001 waste. Thus, during the month you generated 250 pounds of F001 waste. That 250 pounds exceeds the 220 pounds QEL. As a result, you are a Medium Quantity Generator for that month.

**Example 4:** You generated 150 pounds of F001 waste during the month. You had already accumulated on-site 80 pounds of F001 waste. Thus, the total amount of dangerous waste on-site was 230 pounds. As a result, you are a SQG for that month since your generation was less than 220 lbs. and your accumulation was less than 2,200 lbs.

## #6: Converting quantities to/from pounds

In order to determine whether you are an LQG, MQG, or SQG, you must be able to measure your waste generation in pounds. The following conversions should help you translate between, for example, gallons and pounds of waste generated.

### ■ Converting TO pounds FROM another unit of measure

#### From SHORT TONS:

Multiply quantity by 2,000. (1 short ton = 2,000 pounds)

For example, if you generated 3 short tons of dangerous waste, multiply this quantity by 2,000.  
 $3 \times 2,000 = 6,000$  pounds of dangerous waste generated.

#### From METRIC TONS:

Multiply quantity by 2,200. (1 metric ton = 2,200 pounds)

For example, if you generated 5 metric tons of dangerous waste, multiply this quantity by 2,200.  
 $5 \times 2,200 = 11,000$  pounds of dangerous waste generated.

#### From GALLONS:

##### ■ If you do not know the density:

Assume the waste has the density of water. Multiply the quantity by 8.34. (1 gallon water = 8.34 pounds)

For example, if you generated 50 gallons of wastewater (and you do not know the density of the waste), multiply the quantity by 8.34.  
 $50 \times 8.34 = 417$  pounds of dangerous waste generated.

##### ■ If density is measured in lbs/gal:

Multiply the quantity by the density.

For example, if you generated 50 gallons of wastewater with a density of 7.9 lbs/gal, multiply the quantity by 7.9.  
 $50 \times 7.9 = 395$  pounds of dangerous waste generated.

##### ■ If density is measured by specific gravity:

Multiply the quantity by 8.34. Then multiply this product by the specific gravity.

For example, if you generated 50 gallons of wastewater with a specific gravity of 1.2, first multiply the quantity by 8.34, then multiply this product by 1.2.  
 $50 \times 8.34 = 417$ ;  $417 \times 1.2 = 500.4$  pounds of dangerous waste generated.

**From LITERS:**

■ **If you do not know the density:**

Assume the waste has the density of water. Multiply the quantity by 2.19. (1 liter water = 2.19 pounds)

For example, if you generated 500 liters of wastewater (and you do not know the density of the waste), multiply the quantity by 2.19.  
**500 x 2.19 = 1,095 pounds of dangerous waste generated.**

■ **If density is measured in lbs/liter:**

Multiply the quantity by the density.

For example, if you generated 500 liters of wastewater with a density of 2.1 lbs/liter, multiply the quantity by 2.1.  
**500 x 2.1 = 1,050 pounds of dangerous waste generated.**

■ **If density is measured by specific gravity:**

Multiply the quantity by 2.19. Then multiply this product by the specific gravity.

For example, if you generated 500 liters of wastewater with a specific gravity of 1.2, first multiply the quantity by 2.19, then multiply this product by 1.2.  
**500 x 2.19 = 1,095; 1,095 x 1.2 = 1,314 pounds of dangerous waste generated.**

**From CUBIC YARDS:**

Multiply the quantity by the density as measured in pounds per cubic yard.

If you do not know the density, use the following as a guideline:

<b>MATERIAL</b>	<b>DENSITY (pounds per cubic yard)</b>
<b>Clay</b>	<b>2,100</b>
<b>Slag (blast furnace)</b>	<b>2,200</b>
<b>Earth/Soil</b>	<b>2,700</b>
<b>Limestone</b>	<b>2,700</b>
<b>Sand, dry/loose</b>	<b>2,700</b>
<b>Sand, wet/packed</b>	<b>3,200</b>

For example, if you have 3 cubic yards of contaminated soil, multiply the quantity by 2,700 (density of soil).

**3 x 2,700 = 8,100 pounds of dangerous waste generated.**

■ **Converting FROM pounds TO another unit of measure**

**To SHORT TONS:**

Divide quantity by 2,000.

For example, if you have 500 pounds of dangerous waste, divide this quantity by 2,000.  
**500 ÷ 2,000 = .25 short tons of dangerous waste generated.**

**To METRIC TONS:**

**Divide quantity by 2,200**

For example, if you have 3,000 pounds of dangerous waste, divide this quantity by 2,200.  
**3,000 ÷ 2,200 = 1.36 metric tons of dangerous waste generated.**

**To GALLONS:**

■ **If you do not know the density:**

Assume the waste has the density of water. Divide the quantity by 8.34.

For example, if you generated 450 pounds of waste, divide this quantity by 8.34.  
**450 ÷ 8.34 = 53.95 gallons of dangerous waste generated.**

■ **If density is measured in lbs/gallon:**

Divide the quantity by the density.

For example, if you generated 450 pounds of waste with a density of 7.9 lbs/gal, divide this quantity by 7.9.  
**450 ÷ 7.9 = 56.96 gallons of dangerous waste generated.**

## Helpful Hints

### ■ If the density is measured by specific gravity:

1. Multiply the specific gravity by 8.34.
2. Divide the waste quantity by this product.

For example, if you generated 450 pounds of waste with a specific gravity of 1.2, first multiply 1.2 by 8.34, then divide 450 by this product.

$1.2 \times 8.34 = 10.01$ ;  $450 \div 10.01 = 44.95$  gallons of dangerous waste generated.

### To LITERS:

### ■ If you do not know the density:

Assume the waste has the density of water.  
Divide the quantity by 2.19.

For example, if you generated 500 pounds of waste, divide this quantity by 2.19.

$500 \div 2.19 = 228.31$  liters of dangerous waste generated.

### ■ If density is measured in lbs/liter:

Divide the quantity by the density.

For example, if you generated 500 pounds of waste with a density of 2.1 lbs/liter, divide this quantity by 2.1.

$500 \div 2.1 = 238.1$  liters of dangerous waste generated.

### ■ If the density is measured by specific gravity:

1. Multiply the specific gravity by 2.19.
2. Divide the waste quantity by this product.

For example, if you generated 450 pounds of waste with a specific gravity of 1.2, first multiply 1.2 by 2.19, then divide 450 by this product.

$1.2 \times 2.19 = 2.63$ ;  $450 \div 2.63 = 171.1$  liters of dangerous waste generated.

### To CUBIC YARDS:

Divide the quantity by the density as measured in lbs. per cubic yd.

If you do not know the density, use the following as a guideline:

MATERIAL	DENSITY (pounds per cubic yard)
Clay	2,100
Slag (blast furnace)	2,200
Earth/Soil	2,700
Limestone	2,700
Sand, dry/loose	2,700
Sand, wet/packed	3,200

For example, if you have 6,000 pounds of contaminated soil, divide the quantity by 2,700 (the density for soil).

$6,000 \div 2,700 = 2.22$  cubic yards of contaminated soil.

## #7: Reporting non-recurrent or periodic waste generation

Non-recurrent or periodic waste generation means the generation of waste from non-routine events such as the cleanup of spills or the decommissioning of equipment. This includes remediation-derived generation, such as generation resulting from a Superfund remedial action, RCRA closure of a dangerous waste management unit. Non-recurrent waste is not associated with ongoing, day-to-day, or routine site operations.

The generation of these wastes should be reported on the GM Form. You should indicate that the waste is a result of non-recurrent generation when answering **two** questions: question A-7, "Which source code best identifies the production, service, management process, or clean-up activity associated with the generation of this waste stream?" and question A-9, "What is the origin of this waste stream?"

- For question A-7, you would select a source code from either of the source code sections "Production or Service Derived One-Time and Intermittent Processes" or "Remediation Derived Waste" (see source codes on page 48).
- For question A-9, you would select the origin code "ii", reflecting that the dangerous waste was "the result of a spill cleanup, equipment decommissioning, or other remedial cleanup activity" (see origin codes on page 51).

## #8: Reporting international shipments

If you send dangerous waste to or receive dangerous waste from a foreign country, you are required to report the activity in these forms.

**Waste Exported to Foreign Countries:** Note first that all generators who export RCRA-regulated hazardous waste to a foreign country **must first obtain federal approval of the export by following the requirements of 40 CFR Part 262 Subpart E, Exports of Hazardous Waste.**

Generators who export dangerous wastes regulated **only** by the State of Washington (i.e., wastes that have been assigned only Washington state-only waste codes, as described in Helpful Hint #2 on page 3) are **not** required to follow the Subpart E requirements. For more information on the federal export requirements, contact the EPA RCRA Hotline at 1-800-424-9346.

To report all shipments of dangerous wastes to foreign countries in the Annual Report, use the GM Form and the OI Form. On the GM Form, complete Section A, Section C, and questions **B-1** through **B-3** as you would for any other waste stream that you generated and managed during the reporting year. In question **B-4**, if the foreign facility has a RCRA Site ID Number, use that number as you would for any other facility. If the foreign facility does not have an RCRA Site ID Number, use the letters “FC” followed by the name of the destination country (e.g., FCCANADA, FCMEXICO). In Section C, Comments, identify the name of the facility in that foreign country to which you shipped the waste stream. On the OI Form, in the space provided for the RCRA Site ID Number, specify the “FC” designation (e.g., FCCANADA) and provide the complete name and address information for the associated foreign facility.

If you shipped the waste stream to more than one facility within a single foreign country, number your “FC” facilities sequentially (e.g., you would identify three facilities in Canada as FCCANADA1, FCCANADA2, and FCCANADA3). In Section D, Comments, list the “FC” designations and provide the facility name

for each designation (e.g., enter “FCCANADA1 = ACME Recycling; FCCANADA2 = Canuck Metals;” etc.). On the OI Form, in the space provided for the RCRA Site ID Number, specify the “FC” designation (e.g., FCCANADA2) and provide the complete name and address information for that foreign facility.

If you are an LQG you must also provide manifest information in question **B-5**. Use each of the “FC” designations listed in question **B-4.i** in lieu of the RCRA Site ID Number requested in question **B-5.iv**. Identify all shipments associated with the export of the waste stream to the designated foreign facilities.

**Waste Imported from Foreign Countries:** No special federal notification is required for the import of dangerous wastes from foreign countries.

Use the WR Form and the OI Form to report all receipts of dangerous waste from foreign countries. On the WR Form, complete all questions, except for question **9.iv**, as you would for any other waste received. For question **9.iv**, if the foreign site of origin has a RCRA Site ID Number, use that number as you would for any other site. If the foreign site does not have a RCRA Site ID Number, enter the letters “FC” followed by the name of the country of origin (e.g., FCCANADA, FCMEXICO). In question **10. Comments**, provide the name of the foreign site. On the OI Form, in the space provided for the RCRA Site ID Number, specify the “FC” designation (e.g., “FCCANADA”) and provide the complete name and address information for that foreign site.

If you received the waste stream from more than one site within a single foreign country, number the “FC” entries sequentially (e.g., you would identify three sites in Canada as FCCANADA1, FCCANADA2, FCCANADA3). In question **10. Comments**, list the “FC” designations and provide the site name for each designation (e.g., enter “FCCANADA1 = ACME Plant; FCCANADA2 = Alberta Generator;” etc.). On the OI Form, in the space provided for the RCRA Site ID Number, specify the “FC” designation (e.g., FCCANADA2) and provide the complete name and address information for that foreign site.

## #9: Reporting special waste shipments

Ecology revised the management requirements for special waste in 1995. If safely managed, special waste are conditionally excluded from the Dangerous Waste Regulations as explained in WAC 173-303-073. Ecology has developed a Focus Sheet to help you understand the management requirements of special waste. To request Publication #96-1254-HWTR, please call Ecology at 1-800-874-2022 (within state) or (360) 407-6170.

Generators can manage special waste as fully regulated dangerous waste or they can choose to follow the conditional exclusions of WAC 173-303-073. To take advantage of this conditional exclusion, generators must dispose of their waste in hazardous waste or municipal solid waste landfills, recycle the waste on- or off-site, or treat the waste in a way that is consistent with Ecology's treatment-by-generator guidance.

Generator annual reporting of special waste is required. Special waste that is shipped off-site to landfills should be reported on GM and OI forms in the same manner as waste being sent off-site to TSDR's. Include in the Comment Section on the GM Form "Special Waste."

If you sent special waste to a landfill that does have a RCRA Site ID Number, enter SWFACILITY in place of the TSDR ID Number in questions B4 and B5 on the GM form. On the OI form, again use SWFACILITY in place of the ID Number, enter in name and address information for the landfill, and check TSDR as the Handler Type.

If you sent special waste to multiple landfills without RCRA Site ID Number, add sequential numbers to your SWFACILITY entries on both the GM and OI Forms (i.e. SWFACILITY01, SWFACILITY02, SWFACILITY03).

## #10: Excluded Categories of Waste

**Universal Waste (WAC 173-303-573):** Wastes managed under the Universal Waste Rule do not count toward generator status and are not reported on your dangerous waste annual reports. These include:

- **Batteries:** All batteries that designate as hazardous waste should be managed as universal waste. Spent lead-acid batteries may continue to be managed under the existing lead-acid battery exemption of WAC 173-303-520.
- **Mercury containing thermostats:** A mercury containing thermostat is a temperature control device that contains metallic mercury in an ampule attached to a bimetal sensing element. This does not include all mercury switches. Ampules removed from these thermostats can also be managed under the universal waste requirements. Other types of mercury switches must be managed according to all applicable dangerous waste requirements.
- **Lamps:** Any type of high or low pressure bulb or tube portion of an electric lighting device that generates light through the discharge of electricity either directly or indirectly as radiant energy. Universal waste lamps include, but are not limited to fluorescent, mercury vapor, metal halide, high-pressure sodium and neon. As a reference, it may be assumed that four, four-foot, one-inch diameter unbroken fluorescent tubes are equal to 2.2 pounds of weight.



**Permit-by-Rule (PBR):** Wastes managed immediately upon generation in on-site PBR units are not counted toward generator status and are not reported on the Annual Dangerous Waste Report. The key term is immediate, the waste must directly enter a PBR unit as soon as it is generated. There is no temporary storage or accumulation of waste allowed between the point of generation and the PBR unit. PBR Units are limited to wastewater treatment units, elementary neutralization units, and totally enclosed treatment units.

**Recycling without prior storage or accumulation:** Waste recycled on-site, without being stored or accumulated prior to recycling in a process subject to WAC 173-303-120(4)(a) of the Dangerous Waste Regulations, are not counted toward generator status and not reported on the Annual Dangerous Waste Report. As soon as the waste is generated, it immediately enters the recycling unit. Wastes cannot be carried in buckets, between the point of generation and recycling unit.

# WORKSHEET #3

## REPORTING LAB PACKS

*This Worksheet is for your use only.  
Do NOT submit this Worksheet to  
Ecology.*

### What does this worksheet help me do?

This worksheet will help you to report:

- the generation, management, or shipment of **lab packs** on the GM form; and
- the receipt of **lab packs** on the WR form.

### What are lab packs?

**Lab packs** are small containers of state and/or federal dangerous waste in overpacked drums. If you are not reporting a **lab packed** waste do not follow this work sheet.

### Reporting lab packs on the GM Form

The following provides guidelines on how you should answer specific questions on the GM Form for your lab pack waste stream(s).

**A-2. Waste description:** Enter “Lab pack”

**A-3. EPA waste codes:** Leave blank

**A-4. Washington state-only waste codes:** Enter “WL01” if EHW; enter “WL02” if DW\*

**A-5. Designation:** Complete as appropriate: if you answered WL01 in question A-4, select EHW; if you answered WL02 in question A-4, enter DW\*

**A-6. Mixed radioactive waste:** Complete as appropriate

**A-7. Source code:** Enter “A99” (other)

**A-8. Form code:** Enter “B009” (lab packs)

**A-9. Origin code:** Enter “i” or “ii” (recurrent) or (non-recurrent).

**B-1. Quantity managed in the reporting year:** If you are able to, estimate the quantity of the waste contents of the lab pack(s), excluding the containers. Otherwise, enter the overall quantity.

Complete the rest of the form as directed.

**Note:** Lab packs do not qualify for recycling credits.

### Reporting lab packs on the WR Form

The following provides guidelines on how you should answer specific questions on the WR Form for the lab pack waste stream(s) that you receive from off-site.

**2. Waste description:** Enter “Lab pack”

**3. EPA waste codes:** Leave blank

**4. Washington state-only waste codes:** Enter “WL01” if EHW; enter “WL02” if DW\*

**5. Designation:** Complete as appropriate: if you answered WL01 in question 4, select EHW; if you answered WL02 in question 4, enter DW\*

**6. Mixed radioactive waste:** Complete as appropriate

**7. Form code:** Enter “B009” (lab packs)

**8. Quantity received in the reporting year:** Estimate the quantity of the contents of the lab pack(s)

Complete the rest of the form as directed.

*\* Remember that a single waste stream should have only one designation. Thus, if you have some lab packs that are EHW and some that are DW, you should have two GM forms: one for the WL01 EHW lab pack waste stream and one for the WL02 DW lab pack waste stream.*

# WORKSHEET #4

## IDENTIFYING A DANGEROUS WASTE MANAGEMENT SYSTEM

*This Worksheet is for your use only. Do NOT submit this Worksheet to Ecology.*

### What does this worksheet help me do?

This worksheet will help you to complete the following forms:

- GM Form, for generators who manage their dangerous waste on-site;
- WR Form, for TSDRs that receive dangerous waste from off-site for treatment, disposal, or recycling.

### What is a dangerous waste management system?

For purposes of completing these forms, a management system is defined by EPA as a process or series of processes that act together to perform a single operation on a dangerous waste stream. A system may consist of a number of units, or pieces of equipment—e.g., individual tanks, surface impoundments, or distillation systems.

The system begins at the process unit where a dangerous waste stream first enters the waste management vessels and includes all other process units downstream from the point of entry except for the following:

- incineration/thermal treatment;
- underground injection;
- landfills;
- land treatment/application/farming;
- surface impoundment to be closed as a landfill; and
- other disposal.

Each of the six processes listed above should **always** be identified as its own individual management system.

### How do I identify a dangerous waste management system?

As you identify a dangerous waste management system, in most cases, you will note that dangerous waste should only be able to enter the system at one point. Thus, wherever you identify a point of entry, the process units from that point on, to the point of disposal or discharge, together constitute a unique management system. In some circumstances, however, dangerous wastes might feed into two tanks that separately conduct the same treatment process in parallel (e.g., two chromium reduction tanks that lead to common chemical precipitation and clarification/settling units, followed by discharge under NPDES permit and the landfill of a sludge). In such a circumstance, the two chromium reduction tanks would be considered a single dangerous waste management system: chromium reduction followed by chemical precipitation. (system code M071)

### How do I assign a system code to the dangerous waste management system?

You should classify the system by the system code (system codes are listed on pages 52-53) that *best* indicates the primary process within the system or the primary operation that the system performs. For example:

- A system to remove dissolved metals from wastewater typically includes equalization, pH adjustment, chemical precipitation, flocculation, clarification/settling, and dewatering of the sludge removed from the bottom of the clarifier. **Chemical precipitation** best identifies the primary purpose of the treatment system—that is, to remove metals from the wastewater. Therefore, categorize the system under system code M077 for chemical precipitation.

- A system consists of chromium reduction, chemical precipitation, clarification/settling, and a sludge dewatering filter press. The system type for this unit is chromium reduction followed by chemical precipitation, system code M071, because the primary purpose of the process system is the treatment and removal of chromium wastes.
- A system consists of a cyanide oxidation process, followed by chemical precipitation of metals, clarification/settling, and dewatering in a filter press. The system type is cyanide oxidation followed by chemical precipitation, system code M074, since the primary purpose of the process system is to destroy cyanide wastes and remove metals from that waste.
- A system for general metal-containing waste consists of chemical precipitation of metals, clarification/settling, and sludge dewatering in a filter press. The system type is chemical precipitation, system code M077.

### Reporting storage/transfer activity

Waste streams sent off-site or received from off-site for **storage/transfer**, as defined on page 27, should always be assigned system code M141.

**TSDR**

On the GM Form, a generator who **sends** a waste stream off-site to a facility, such as a broker, that conducts storage/transfer activity on the waste will report system code M141 as the off-site management type, under question **B-4**.

On the WR Form, a TSDR that **receives** waste from off-site for storage/transfer activity will report system code M141 under question **9**.

Then, on the GM Form, the TSDR will report the “generation” of that waste stream when it is shipped off-site for management. The facility will indicate that the waste being “generated” is a **storage/transfer** waste by selecting source code A80 under question **A-7**, and the origin code “iv” under question **A-9**.

# WORKSHEET #5

## RECYCLING CREDIT

*This Worksheet is for your use only.  
Do NOT submit this Worksheet to Ecology.*

### What are recycling credits?

Recycling credits refer to the percentage of your recurrent waste that was reclaimed in an **off-site recycling process performed by a TSDR facility**. Recycling credits reduce the amount of your waste that Ecology will use to calculate whether you must prepare a Pollution Prevention Plan and/or pay a Pollution Prevention Planning Fee.

### Who can obtain the recycling credit?

You qualify for recycling credits if in the reporting year:

- you generated **2,640 pounds or more of recurrent waste and the dangerous waste residuals of recurrent waste** (rather than **non-recurrent waste**, defined on page 25); **and**
- you sent all or part of this waste **off-site** to a TSDR facility for **recycling**.

If you recycled waste on-site, it is not counted for Pollution Prevention Planning. You should, however, obtain guidance from Ecology on how to count the quantity of dangerous waste that you generate versus the quantity that is recycled. To request Publication # 98-414, Counting Dangerous Waste under the Dangerous Waste Regulations, please call Ecology at 1-800-874-2022 (within state) 360-407-6170.

### How do recycling credits work?

Recycling credits are applied against the total amount of your recurrent waste generation when Ecology calculates whether you must prepare a Pollution Prevention Plan and/or pay the Pollution Prevention Planning Fee.

If you generated at least 2,640 pounds of recurrent waste in a year, you meet the threshold for preparing a Pollution Prevention Plan, as per WAC 173-307-010. You may also be required to pay a Pollution Prevention Planning Fee based on the amount of recurrent waste you generated. Recycling credits, however, are **deducted** from the amount of waste that Ecology uses to calculate whether you must prepare a Pollution Prevention Plan and/or the total Pollution Prevention Planning Fee you must pay. This deduction may provide you one of the following benefits:

- recycling credits may reduce the Pollution Prevention count enough so that you fall **below** the 2,640-pound Pollution Prevention Plan threshold and thus do **not** have to prepare a Pollution Prevention Plan or pay the associated Pollution Prevention Planning Fee; **or**
- recycling credits, even if they do not drop you below the 2,640-pound Pollution Prevention Plan threshold, may still **reduce** the total of the Pollution Prevention Planning Fee that you are required to pay.

### How do I obtain the recycling credit?

If you sent a recurrent waste stream off-site to receive one of the qualifying types of “recycling” management (see below, “What type of management is considered ‘recycling’?”), you must contact your TSDR facility to learn what percentage of your waste stream was recycled.

You may simply telephone the TSDR facility and ask them to provide you written documentation, in whatever format the TSDR facility finds most convenient, attesting to the percentage of your waste stream that was recycled. The TSDR facility **must** include in the documentation **the identification of the waste stream recycled (by waste description and waste form), the system**

**code (pages 52-53 in this book) indicating the type of management the waste received, and the percentage recycled during the reporting year. An authorized representative of the TSDR facility must sign and date the documentation provided to you.**

Use the information the TSDR facility provides you to complete your GM Form for the waste stream in question. In question **B-4iv**, enter the percent of the waste stream that was recycled by the specific TSDR facility. Use whole numbers, (i.e., if 20 percent of the waste was recycled, enter “20,” *not* “.20”). Round off fractions, as two digits is the maximum allowable value. Do **NOT** enter the % symbol. Leave this question blank if no credit is being claimed (do not enter “0” or “x”). All claims for 100 per cent will be denied, as all recycling processes leave residue.

**You must attach this documentation, or a copy of it, to the end of the Annual Report. Reporters submitting electronically must attach this documentation to their Verification Form.** Claims for recycling credit without attached documentation will be denied.

Remember that recycling percentage information is **specific** to the **waste stream and TSDR facility combination**, as illustrated in the following examples:

- You sent the waste stream in question to two different TSDR facilities during the reporting year. Only one of the facilities recycled or reclaimed the waste. You may only apply the recycling percentage to the amount of the waste stream that went to the facility at which the recycling activity occurred.
- You sent the waste stream in question to two different TSDR facilities during the reporting year. Both facilities performed some type of recycling process on the waste. Facility A reclaimed 20 percent. Facility B reclaimed 30 percent.
- You may apply the 20 percent credit **only** to the amount of waste that went to Facility A for management.

- You may apply the 30 percent credit **only** to the amount of waste that went to Facility B for management.

## What type of management is considered “recycling”?

Only certain types of management constitute “recycling” for purposes of obtaining the recycling credit. The qualifying management types are listed below, and continued on the following page, by system code (see pages 52-53 in this book for a complete listing of management system codes). Also provided are examples of how system codes may be assigned to common off-site recycling activities.

### Metals Recovery

- M011 High temperature metals recovery
- M012 Retorting
- M013 Secondary smelting
- M014 Other metals recovery for reuse (e.g., ion exchange, reverse osmosis, acid leaching, etc.)
- M019 Metals recovery—type unknown

### Solvents Recovery

- M021 Fractionation/distillation
- M022 Thin Film Extraction
- M023 Solvent extraction
- M024 Other solvent recovery
- M029 Solvents recovery—type unknown

### Other Recovery

- M031 Acid regeneration
- M032 Other recovery (e.g., waste oil recovery, non-solvent organics recovery, etc.)
- M039 Other recovery—type unknown

### Aqueous Organic Treatment

- M082 Carbon Adsorption

### Other

- M141 Storage/Transfer (Indicate the final destination System Code in Section C Comments).

**Example:** You contract with a TSDR to manage organic spent solvents. The TSDR manages the solvents through solvent distillation, system code M021.

**Example:** You generate a lacquer thinner that you send off-site for distillation. Use system code M021, “solvent distillation.”

**Example:** You generate a metal-bearing sludge, which is dried to produce a filtercake. You send the filtercake off-site to a metal smelter for metals recovery. The appropriate system code is M013, secondary smelting.

**Example:** You generate a contaminated ammonia-based etchant in the process of printed circuit board manufacture. You send the etchant off-site to a company that vaporizes the liquid and then recovers the metal through further processing. Assign system code M014, “other metals recovery for reuse (e.g., ion exchange, reverse osmosis, acid leaching, etc.).”

# WORKSHEET #6

## EXTENDED STORAGE

*(Only for TSDRs that hold RCRA storage permits)*

***This Worksheet is for your use only.  
Do NOT submit this Worksheet to Ecology.***

All facilities that hold a RCRA storage permit should review this worksheet before completing their Annual Report forms. If you do not hold a RCRA storage permit, do NOT read this worksheet.

### Background

Ecology has recognized a need for information on dangerous wastes placed into storage for an **extended** period of time. The agency wishes to understand the types of dangerous waste being placed into long-term storage, the duration of the storage activity, and the ultimate disposition of the waste after storage. As a result, Ecology has developed this guidance to direct those facilities conducting **extended storage** of dangerous wastes on how to report that activity to Ecology in the Dangerous Waste Annual Report forms.

### What is extended storage?

Ecology has developed a definition of **extended storage** solely for purposes of reporting dangerous waste generation and management activities in the context of the Annual Report forms. The definition is not intended to serve any other regulatory purpose, nor does it alter any definitions set forth in Chapter 173-303 WAC. The definition is as follows:

**Extended storage** occurs when a TSDR generates or receives from off-site a dangerous waste that is then placed into on-site permitted storage during the current reporting year **for a period of time that will extend beyond the next reporting year**. In other words, extended storage addresses those wastes that would enter storage and remain in storage through a minimum of two reporting cycles (i.e., the waste enters storage during the current reporting year and does **not** emerge during the next reporting year).

**Example:** A TSDR places a dangerous waste into on-site permitted storage during the current (e.g., 2000) reporting year and anticipates that the waste will remain in storage throughout the next reporting year, (e.g., 2001), so the earliest time that the waste would emerge from storage is sometime during the 2002 reporting year. In this example, the waste will have been in permitted storage for a minimum of two reporting cycles (entering in 2000 and continuing in 2001). This constitutes extended storage.

This definition does **not** address routine accumulation activities by generators. Ecology recognizes that generators may accumulate their wastes for a period of time until they have an adequate amount to warrant treatment/disposal/recycling of the bulked waste. This accumulation period may begin during one reporting year and conclude during the following year. In some circumstances, such accumulation may take place in an area permitted for storage. Such accumulation is perfectly acceptable and **does not** constitute “extended storage.” Generators conducting such accumulation should report those activities as described in the Annual Report forms: the accumulated wastes should be reported when they are put into on-site treatment, disposal, recycling systems, or when they are sent off-site.

If, however, wastes are being stored over an extended period of time, as described by the definition above, the TSDR conducting the extended storage should report that activity in the **current** Annual Report forms—i.e., in the Annual Report for the reporting year during which the extended storage begins. Ecology recognizes that determining whether a storage activity will trigger the definition of extended storage is, to some extent, a judgment call. TSDRs are asked to use their best judgment in reporting to Ecology. If, for example, the TSDR determines after the fact that waste that had been in storage actually became “extended storage”, then the TSDR should contact Ecology at (800) 874-2022 (within state) (360) 407-6170 for instructions on correcting the information in the Annual Report(s) already filed.

TSDRs that generate dangerous waste that is placed into extended storage should review the section below, "Reporting Extended Storage in the GM Form." TSDRs that receive dangerous waste from off-site that they place into extended storage should review the section, "Reporting Extended Storage in the WR Form."

Before proceeding, all TSDRs should note that wastes placed into extended storage should be defined as unique waste streams. That is, if, for example, a TSDR receives a waste stream, some of which it treats and some of which it places into extended storage, then the TSDR should actually define that waste stream as two separate waste streams on two separate WR Forms. On the first WR Form, the TSDR would report receiving the waste stream and would report the management of the waste stream with the system code that reflects the type of treatment provided. On the second WR Form, the TSDR would report receiving that same waste stream, but the system code reported would be M141, indicating that the waste was received for "storage/ transfer". By keeping managed wastes separate from wastes placed in extended storage, the TSDR and Ecology will be better able to track those wastes that enter, and eventually exit, extended storage.

## Reporting wastes generated and placed in on-site extended storage

TSDRs that generate dangerous waste and then put that waste into extended storage should report that activity as follows. Instructions provided here for a given question override those provided in Annual Report Book 1.

### ■ When Extended Storage of the Waste Stream Begins

In the Annual Report for the year that the extended storage **begins**, report on the GM Form the waste entering extended storage as follows.

1. Complete **Section A** as for any waste stream.

### 2. In **Section B**:

- For question **B-1**, enter the total quantity of this waste stream that entered extended storage during the reporting year.
- For question **B-2**, select on-site management.
- For question **B-3**, copy the quantity from question **B-1** and indicate a system code of M142, a code specially defined to represent extended storage. [Note: this code is not printed in the Annual Report forms.]

### ■ When Extended Storage of the Waste Stream Ends

In the Annual Report for the year that the extended storage **ends**, report on the GM Form the waste being removed from storage and treated/ disposed/ recycled as follows:

### 1. In **Section A**:

- Complete questions **A-2, A-3, A-4, A-5, A-6, and A-8** exactly as on the original GM Form from the year the waste entered extended storage (i.e., same waste stream definition).
- Complete question **A-7**, source code, as A80, storage/transfer.
- For question **A-9**, indicate an origin code of **iv** (storage/transfer).
- Answer question **A-9.a.** by indicating that the system of origin is system code M142 (extended storage).

2. Complete **Section B** as for any waste stream, to indicate the management of the waste stream.

3. Complete **Section C** as for any waste stream.

## Reporting wastes received from off-site for extended storage

TSDRs receiving wastes from off-site for extended storage should report as follows on the WR Form. Instructions provided here for a given question override those provided in Annual Report Book 1.

### ■ When Extended Storage of the Waste Stream Begins

In the Annual Report for the year that the waste stream is received into extended storage, report on the WR Form the waste being received as follows:

1. Complete questions **2, 3, 4, 5, 6, 7,** and **8** as for any waste stream.
2. Complete question **9** to indicate the receipt of all individual shipments of the waste stream and to indicate how the individual shipments were managed. To indicate that the shipments were received for extended storage of the waste stream, the facility should select system code M142.

### ■ When Extended Storage of the Waste Stream Ends

When the waste comes out of extended storage for management, report as follows on the GM Form.

1. In **Section A** of the GM Form:

- Complete questions **A-2, A-3, A-4, A-5, A-6,** and **A-8** identical to the WR Form from the year the waste entered the extended storage (i.e., same waste stream definition).
- For question **A-7**, choose source code A80 (storage/transfer).
- For question **A-9**, indicate an origin code of **iv** (storage/transfer).
- Answer question **A-9.a.**, by indicating that the system of origin is system code M142 (extended storage).

2. Complete **Section B** as for any waste stream, to indicate the management of the waste stream.

3. Complete **Section C** as for any waste stream.

# WORKSHEET #7a

## ON-SITE MANAGEMENT: WHICH WASTE STREAMS TO REPORT

*This Worksheet is for your use only. Do NOT submit this Worksheet to Ecology.*

**Permit by Rule (PBR):**

Permit by Rule wastes are characterized as waste managed immediately upon generation in on-site elementary neutralization units, waste water treatment units, or totally enclosed treatment units.

WAC 173-303-070(7)(c)(iii)

Do not report if  
**immediately managed**

**Recycling - Immediate:**

This refers specifically to on-site recycling of dangerous wastes that are not stored or accumulated prior to recycling and recycled in a process subject to regulation under WAC 173-303-120-(4)(a)

Do not report

**Recycling - Excluded:**

Wastes recycled in a closed-loop system are not reported. Also look for specific recycling exclusions in WAC 173-303-070(7)(d)(iii) and WAC 173-303-(7)(c)(ii)

Do not report

**Recycling - Other:**

Dangerous waste that is stored or accumulated prior to recycling, that does not qualify for specific exclusions are counted. WAC 173-303-170 and WAC 173-303-200

Report according to  
procedures outlined in  
Worksheet 7b

**Treatment by Generator:**

All dangerous waste treated on-site in accumulation tanks, containers, and containment buildings. WAC 173-303-170(2) & (3)

Report according to  
procedures outlined in  
Worksheet 7b

# WORKSHEET #7b

## ON-SITE MANAGEMENT: HOW TO REPORT"

*This Worksheet is for your use only.  
Do NOT submit this Worksheet to  
Ecology.*

### What does this worksheet help me do?

This worksheet will help you report:

- the original generation and on-site management of waste on the GM form; and
- the generation and off-site disposal of any residuals resulting from your on-site management activities on the GM form.

### What is on-site management?

On-site management of a waste stream is the treatment, storage, disposal and recycling of a dangerous waste at the site of generation. This includes permit-by-rule and treatment-by-generator activities as well as common recycling activities such as distillation and solvent extraction.

### How many GM forms do I need to fill out?

In most cases reporting on-site management of a waste stream requires two GM forms. One GM form is needed to report the original generation of the waste and a second GM form is needed to report the residuals (i.e. still bottoms, sludge, filters).

### First GM form — Reporting the original generation and on-site management activities:

The following provides guidance on how you should answer specific questions on the GM form for your on-site managed waste stream(s). Questions on the GM form that are not listed below should be completed as appropriate.

**A-9 Origin code:** Enter either "i" or "ii".

#### B-1 Quantity managed in the reporting year:

Enter the total amount of this waste stream generated and then managed (either on-site, off-site or both). Include the unit of measure and density (if appropriate).

#### B-2 Where was the waste managed?:

- If this entire waste stream was managed on-site, check the "on-site" box, answer B-3, then stop.
- If part of the waste stream was managed on-site and part was managed off-site, check the "both" box, answer both B-3 and B-4, and if you are an LQG or TSDR answer question B-5.



*Remember, on this GM form you are reporting where the original waste generation was managed. On a separate GM form you will report the management of the residual.*

#### B-3 How much was managed on-site and how was it managed?

- If this entire waste stream was managed on-site, enter the same quantity as in question B-1. Include the appropriate system code.
- If only part of the waste stream was managed on-site, enter on the quantity of the on-site managed portion. Include the appropriate system code.

#### B-3a Was this Treatment-by-Generator activity?

Complete as appropriate. Refer to Book 2, page 28 for a definition of treatment-by-generator.

**B-4 Quantity managed off-site:** If part of the waste stream was managed off-site (sent to a TSDR), complete this section appropriately for only the off-site managed portion.

**B-5 Provide individual off-site shipment information (LQG's and TSDR's only):** As in question B-4, complete this section appropriately for only the off-site managed portion of this waste stream.

## Second GM form — Reporting residuals resulting from on-site management activities:

**A-9 Origin code:** Enter “v”

**System Code:** Enter the system code for the management system that generated the residual waste stream.

**B-1 Quantity managed in the reporting year:** Enter the total amount of this waste stream generated and then managed. Include the unit of measure and density (if appropriate).

**B-2 Where was the waste managed?**

- If this entire waste stream was managed on-site, check the “on-site” box, answer B-3 then stop.
- If part of this waste stream was managed on-site and part was managed off-site, check the “both” box, answer both B-3 and B-4.
- If this entire waste stream was managed off-site, check the “off-site” box, skip question B-3, answer question B-4, and if you are a LQG or TSDR answer question B-5.

**B-3 How much was managed on-site and how was it managed?**

- If this entire waste stream was managed on-site, enter the same quantity as in question B-1. Include the appropriate system code.
- If only part of this waste stream was managed on-site, enter only the quantity of the on-site managed portion. Include the appropriate system code.

**B-3a Was this Treatment-by-Generator activity?**

Complete as appropriate. Refer to Book 2, page 28 for a definition of treatment-by-generator. On-site recycling (System Code M02 ) is not treatment-by-generator.

**B-4 Quantity managed off-site:**

- If part of this waste stream was managed off-site (sent to a TSDR), complete this section appropriately for only the off-site managed portion.
- If this entire waste stream was managed off-site, complete this section appropriately.

**B-5 Provide individual off-site shipment information (LQG’s and TSDR’s only):** As in question B-4, complete this section appropriately for only the off-site managed portion of this waste stream.



# DEFINITIONS

**NOTE:** *The following definitions have been prepared to assist you in understanding terms and concepts for purposes of completing Annual Report forms only. These definitions are not intended to replace or override regulatory definitions provided in Chapter 173-303 WAC. To understand your regulatory requirements, refer to Chapter 173-303 WAC and the definitions therein.*

**Accumulation:** a generator may accumulate dangerous waste for a short period of time before shipping it off-site. The waste must be accumulated in either tanks or containers. Accumulation does not constitute “storage,” a dangerous waste activity that requires a permit (see *storage*). The generator does not need to obtain a storage permit if he/she complies with the applicable requirements of WAC 173-303-200 and 173-303-201, as outlined below.

- Large Quantity Generators may accumulate their waste for up to 90 days before shipping it off-site.
- Medium Quantity Generators may accumulate their waste for up to 180 days before shipping it off-site. If the nearest treatment, storage, disposal, or recycling facility to which they can send their waste is more than 200 miles away, MQGs may request that Ecology grant a 90-day extension to this 180-day period.
- Small Quantity Generators may accumulate dangerous waste and extremely hazardous waste without a permit and without any time limit, as long as the Quantity Exclusion Limit (see Helpful Hint #4 on pages 3 and 4, and the definition on page 26) is never exceeded for any waste or combination of wastes.

**Acutely Hazardous Waste:** dangerous wastes F020, F021, F022, F023, F026, and F027, as listed in WAC 173-303-9904; **and** wastes identified with a dangerous waste code beginning with a “P” as listed in WAC 173-303-9903.

**Authorized Representative:** the person responsible for the overall operation of the facility or an operational unit of the facility, e.g., the plant manager, superintendent, or person of equivalent responsibility.

**Batch:** any waste that is generated less frequently than once a month. For example, waste from a tank that is cleaned out once every fourteen weeks would be considered a “batch.”

**CFR:** see Code of Federal Regulations.

**Capacity:** the quantity of waste that a facility or system can manage. For landfill systems, maximum operational capacity is defined as the quantity of waste that can enter the system over the remaining lifetime of the system. For flow systems, maximum operational capacity is defined as the maximum quantity that can enter the system during the course of one year.

**Closed loop recycling system:** a production system in which secondary materials are reclaimed, returned to, and reused in the original production process or processes from which they were generated, PROVIDED:

- the material (typically solvent) is contained in a tank or tanks, and the process, storage, and reclamation tanks are completely enclosed and connected (e.g., by pipes);
- the spent materials (solvents) are never accumulated in such tanks for over twelve months without being reclaimed;
- reclamation does not involve controlled flame combustion (e.g., burning or incineration that occurs in boilers, industrial furnaces, or incinerators);
- the reclaimed material is not used to produce a fuel or used to produce products that are used in a manner constituting disposal; and
- all dangerous waste residues (e.g., still bottoms, sludges) from the production/reclamation process go to a permitted treatment, storage, and disposal facility or to a legitimate recycler. (If the generator can demonstrate that the residues do not exhibit any dangerous waste characteristics [WAC 173-303-090] or criteria [WAC 173-303-100] and provided that the original waste was not listed, then the residues are exempted from this condition; if the original waste was listed, then the residue is also listed.)

Degreasing processes are not considered production processes, and the reclaimed degreasing solvent, when subsequently used as a degreaser, is not feed-stock. Therefore, a degreasing process would *NOT* fit the criteria for a closed loop recycling system.

**Code of Federal Regulations:** the detailed regulations, written by Federal agencies, that implement the provisions of laws passed by Congress. Regulations in the CFR have the force of Federal law. Federal hazardous waste regulations are found in 40 CFR Parts 260 through 279.

**Commercial:** the characteristic of offering waste treatment/storage/disposal/recycling services to generators or facilities not owned by your company, who will pay for the service.

**Dangerous Waste:** see Helpful Hint #1 on page 2. Dangerous wastes are those solid wastes that designate as dangerous waste or extremely hazardous waste under WAC 173-303-070 through WAC 173-303-100.

**Dangerous Waste Fuel:** Dangerous waste or any fuel that contains dangerous waste which is burned for energy recovery in a boiler or industrial furnace not subject to regulation as a hazardous waste incinerator. The following dangerous waste fuels are subject to regulation as used oil fuels:

1. used oil fuel that is not mixed with dangerous waste but exhibits dangerous waste characteristic(s) as identified in WAC 173-303-090.
2. used oil fuel that solely designates as dangerous waste defined in WAC 173-303-100 and that is not extremely hazardous waste.

**Designated Facility:** the facility designated by the generator on the manifest to receive a dangerous waste shipment and that is authorized under Chapter 173-303 WAC or RCRA to recycle or manage dangerous waste.

**Designation:** the process of determining whether a waste is regulated under the dangerous waste lists, WAC 173-303-080 through 173-303-082; or characteristics, WAC 173-303-090; or criteria, WAC 173-303-100. The procedures for designating wastes are in WAC 173-303-070. A waste that has been designated as a dangerous waste may be either DW or EHW.

**Disposal:** the discharging, discarding, or abandoning of dangerous waste, or the treatment, decontamination, or recycling of such wastes once they have been discarded or abandoned. This includes the discharge of any dangerous wastes into or on any land, air, or water.

**EHW:** see *Extremely Hazardous Waste*.

**Extended storage:** occurs when a TSDR generates or receives from off-site a dangerous waste that is then placed into on-site permitted storage during the current reporting year for a period of time that will extend *beyond* the next reporting year. In other words, extended storage addresses those wastes that would enter storage and remain in storage during a minimum of two reporting cycles (i.e., the waste enters storage during the current reporting year and does not emerge during the next reporting year).

**Example:** A TSDR places a dangerous waste into on-site permitted storage during the current (e.g., 2001) reporting year and anticipates that the waste will remain in storage throughout the next (e.g., 2002) reporting year, such that the earliest time that the waste would emerge from storage is sometime during the 2003 reporting year. In this example, the waste will have been in permitted storage for a minimum of two reporting cycles (starting in 2001 and continuing in 2002). This constitutes extended storage.

**Extremely Hazardous Waste (EHW):** see Helpful Hint #1 on page 2. Those solid wastes as defined in Chapter 173-303 WAC that designate as *Extremely Hazardous Waste*.

**Facility:** all contiguous land, and structures, other appurtenances, and improvements on the land used for recycling, reusing, reclaiming, transferring, storing, treating, or disposing of dangerous waste. A facility may consist of several treatment, storage, or disposal operational units (e.g., one or more landfills, surface impoundments, or combination of them). Unless otherwise specified in these Annual Report forms, the terms *facility*, *management facility*, *treatment/storage/disposal/recycling facility*, and *TSDR facility* shall be used interchangeably.

**Form Code:** code developed by EPA to describe the physical/chemical nature of a waste. The coding system is divided into five broad categories: lab packs, liquids, solids, sludges, and gases. The liquids, solids, and sludges categories have subsections to describe inorganic and organic wastes. Examples of form codes include: B203 nonhalogenated solvent, and B510 degreasing sludge with metal scale or filings.

**Generator:** any person, by site, whose act or process produces dangerous waste or whose act first causes a dangerous waste to become subject to regulation.

**Industrial Boiler:** A boiler located on the site of a facility that is engaged in a mechanical or chemical manufacturing process to transform substances into new products, including the component parts of products.

**Industrial Furnace:** Any of the following enclosed devices that are integral components of manufacturing processes and that use controlled flame combustion to recover materials or energy: cement kilns, lime kilns, aggregate kilns (including asphalt kilns), phosphate furnaces, refining furnaces, titanium dioxide chloride process oxidation reactors, and methane-reforming furnaces (and other devices as specified by Ecology).

**Installation:** generator site, and/or treatment, storage, and disposal facility.

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## Definitions

**LQG:** see *Large Quantity Generator*.

**Labpacks:** small containers of dangerous waste in overpacked drums.

**Land Owner:** in the context of these forms, the person who owns the property to which the facility is located on.

**Large Quantity Generator (LQG):** see Helpful Hint #5 on page 4, and Worksheet #1 in *Book 1: Forms and Instructions*. A generator whose monthly waste generation or accumulation is 2,200 pounds or more of dangerous waste, or 2.2 pounds or more of acutely hazardous waste.

**Large Quantity Handler of Universal Waste:** A universal waste handler as defined in 173-303-040 who accumulates 11,000 pounds or more total of universal waste (batteries, thermostats, and lamps calculated collectively) and/or who accumulates more than 2,200 pounds of lamps at any time. This designation as a large quantity handler of universal waste is retained through the end of the calendar year in which 11,000 pounds or more total of universal waste and/or 2,200 pounds of lamps are accumulated.

**Legal Owner:** in the context of these forms, the company/agency who owns the site or part of the site to which the RCRA Site ID Number is assigned.

**LQG:** see *Large Quantity Generator*

**LQHUW:** see *Large Quantity Handler of Universal Waste*

**MQG:** see *Medium Quantity Generator*.

**Management:** means the treatment, storage, disposal, or recycling of dangerous waste.

**Management facility:** means a facility that treats, stores, recycles, or disposes of dangerous waste. See also *TSDR facility*.

**Management system:** a process or series of processes acting together to perform a single operation on a dangerous waste stream. May consist of a number of units, or single pieces of equipment, e.g., individual tanks, surface impoundments, or distillation systems.

**Manifest:** the shipping document, prepared in accordance with the requirements of WAC 173-303-180, that is used to identify the quantity, composition, origin, routing, and destination of a dangerous waste while it is

being transported to a point of transfer, disposal, treatment, or storage.

**Manifest Document Number:** the unique five-digit document number located right after the US EPA twelve digit identification number. This number is assigned to the manifest by the generator for recording and reporting purposes.

**Material Safety Data Sheet:** manufacturers are required by law to provide material safety data sheets on all products that they manufacture and sell. These data sheets provide information on the physical, chemical, and toxic properties of a product.

**Medium Quantity Generator (MQG):** see Helpful Hint #5 on page 4, and Worksheet #1 of *Book 1: Forms and Instructions*. A generator whose monthly waste generation or accumulation is 220 pounds or more, but less than 2,200 pounds, of dangerous waste.

**Mixed (Radioactive) Waste:** a radioactive waste, as defined by the Atomic Energy Act, which is mixed with a dangerous waste. This waste is regulated under RCRA as well as the Nuclear Regulatory Act and must be reported on these forms.

**NAICS:** see *North American Industry Classification System*

**NPDES:** see *National Pollutant Discharge Elimination System*.

**National Pollutant Discharge Elimination System (NPDES):** a provision of the Clean Water Act that prohibits discharge of pollutants into waters of the United States unless a special permit is issued by EPA, a state, or (where delegated) a tribal government on an Indian reservation.

**Non-Recurrent Waste:** a waste generated as the result of a spill cleanup, equipment decommissioning or other remedial cleanup activity.

**North American Industry Classification System:** has replaced the U. S. Standard Industrial Classification (SIC System). NAICS is a new classification systems that was developed jointly by the United States, Canada and Mexico to provide new comparability in statistics about business activity across North America.

**Off-site:** any site which is not on-site (see definition of *on-site*).

**On-site:** the same, geographically contiguous, or bordering property. Travel between two bordering properties divided by a public right-of-way, and owned, operated, or controlled by the same person, shall be considered on-site travel if: the travel crosses the right-of-way at a perpendicular intersection or the right-of-way is controlled by the property owner and is inaccessible to the public.

**Operator:** in the context of these forms, the person responsible for the operation of the site to which the RCRA Site ID Number is assigned.

**Origin code:** code developed by EPA to describe the origin of a hazardous waste, in terms of the type of activity that generated the waste in question. Examples include origin code “i”, which indicates that the waste is recurrent, from production processes or routine service and cleanup activities; and origin code “ii”, which indicates that the waste is the result of a spill cleanup, equipment decommissioning, or other remedial cleanup activity.

**POTW:** see *Publicly Owned Treatment Works*

**Permit:** an authorization that allows a person to perform dangerous waste transfer, treatment, storage, or disposal operations, and that typically includes specific conditions for such operations. Permits must be issued by Ecology, EPA, or another state authorized by EPA pursuant to 40 CFR Part 271 and WAC 173-303-800 through 810.

**Permit-by-Rule (PBR):** a provision of the *Dangerous Waste Regulations* whereby a facility or activity is considered to have a dangerous waste permit to treat waste if certain requirements are complied with. PBR provisions for wastewater treatment units and elementary neutralization units apply only to the unit(s) involved and do not apply to the specific waste(s) being treated. Dangerous wastes are fully regulated before entering a Permit by Rule unit and when removed from the unit.

**Pollution Prevention Plan:** per Chapter 173-307 WAC, a plan that identifies and addresses opportunities to reduce the use of toxic materials and the generation of dangerous wastes. Required of generators of at least 2,640 pounds of recurrent dangerous waste in one year.

**Pollution Prevention Planning Fee:** per Chapter 173-305 WAC, a fee assessed on organizations required to prepare Pollution Prevention Plans. Assessment is based on the quantity of generation.

**Publicly Owned Treatment Works (POTW):** wastewater treatment works owned by a state, unit of local government, or Indian Tribe usually designed to treat domestic wastewaters.

**QEL:** see *Quantity Exclusion Limit*.

**Quantity Exclusion Limit (QEL):** see Helpful Hint #4 on pages 3 and 4. The quantity, by weight, at which a waste becomes fully regulated under medium quantity generator and large quantity generator requirements, as per WAC 173-303-070.

**RCRA:** see *Resource Conservation and Recovery Act*.

**RCRA Site ID Number:** the number assigned by EPA to each generator, transporter, and treatment, storage, and disposal facility. In the state of Washington, this ID number begins with “WA” and is followed by a letter and 9 digits or by 10 digits. (Formally referred as EPA/State ID Number.)

**RCW:** Revised Code of Washington (legislative statutes: Laws).

**Reclaim:** to process a material in order to recover usable products, or to regenerate a material.

**Reclamation:** a process to recover a usable product or to regenerate a usable material. Examples are recovery of lead from spent batteries and regeneration of spent solvents.

**Recurrent Waste:** waste derived on-site from a production process, service activity or routine cleanup (including off-specification or spent chemicals).

**Recycling:** the use or reuse of waste as an effective substitute for a commercial product or as an ingredient or feedstock in an industrial process. It also refers to the reclamation of useful constituent fractions within a waste material or the removal of contaminants from a waste to allow it to be reused. As used in this report, recycling implies use, reuse, or reclamation of a waste after it has been generated.

**Recycling without prior storage or accumulation:** waste recycled on-site, without being stored or accumulated prior to recycling in a process subject to WAC 173-303-120(4)(a) of the *Dangerous Waste Regulations*, are not counted toward generator status and not reported on the Annual Dangerous Waste Report. As soon as the waste is generated, it must immediately enter the recycling unit. Wastes cannot

be carried in buckets between the point of generation and the recycling units.

**Residual:** matter that remains after completion of a waste treatment activity (e.g., a sludge resulting from wastewater treatment; a still bottom remaining after solvent distillation).

**Resource Conservation and Recovery Act (RCRA):** the federal law regulating hazardous waste. The Solid Waste Disposal Act, as amended by the Resource Conservation and Recovery Act of 1976, as amended by the Hazardous and Solid Waste Amendments of 1984, 42 U.S.C. Section 6901 et seq.

**SIC Code:** see *Standard Industrial Classification (SIC) Code*.

**SQG:** see *Small Quantity Generator*.

**Site:** for the purpose of these forms, a site is the land or water area where any facility or activity is physically located or conducted, including adjacent land used in connection with the facility or activity.

**Small Quantity Generator (SQG):** see Helpful Hint #5 on page 4, and Worksheet #1 of *Book 1: Forms and Instructions*. A generator whose monthly waste generation is less than the QEL (220 pounds for most common wastes or 2.2 pounds for acutely hazardous wastes) and whose accumulation (at any time) is less than 2,200 pounds for waste with a QEL of 220, or 2.2 pounds for waste with QEL of 2.2 pounds.

**Smelting, Melting, and Refining Furnace Exemption:** Under 40 CFR 266.100(c), owners or operators of smelting, melting, and refining furnaces that process hazardous wastes solely for metals recovery are conditionally exempt from regulation, except for 40 CFR 266.101 and 266.112, provided they comply with limited requirements set forth in Section 266.100(c). Similarly, 40 CFR 266.100(f) provides that owners or operators of smelting, melting, and refining furnaces that process hazardous wastes for the recovery of precious metals are conditionally exempt from regulation, except for 40 CFR 266.112, provided they comply with limited requirements specified in Section 266.100(f).

**Source Code:** code developed by EPA to indicate what industrial process or activity caused the generation of a hazardous waste. The codes are organized into seven broad categories: cleaning and degreasing; surface preparation and finishing; processes other than surface preparation; production or service

derived one-time and intermittent processes; remediation derived waste; pollution control or waste treatment processes; and other processes. Examples of source codes include “A21”, painting; and “A76”, sludge dewatering.

**Source Reduction:** any practice that (1) reduces the amount of any hazardous substance, pollutant, or contaminant entering any waste or otherwise being released into the environment (including fugitive emissions) prior to recycling, treatment, or disposal; and (2) reduces the hazards to public health and the environment associated with the release of such substances, pollutants, or contaminants. The term includes equipment or technology modifications, process or procedure modifications, reformulation or redesign of products, substitution of raw materials, and improvements in housekeeping, maintenance, training, or inventory control. Source reduction does not include any practice that alters the physical, chemical, or biological characteristics or the volume of a hazardous substance, pollutant, or contaminant through a process or activity which itself is not integral to and necessary for the production of a product or the provision of a service.

**Standard Industrial Classification (SIC) Code:** a four-digit coding system, developed by the United States Census Bureau and the Office of Management and Budget, that categorizes the principal product or group of products produced or distributed, or services rendered at a facility’s physical location. Replaced by North American Industry Classification System (see NAICS).

**Storage:** the permitted holding of dangerous waste for a temporary period at the end of which the dangerous waste is treated, disposed of, or transferred elsewhere. (See also *accumulation*.)

**Storage/transfer:** a dangerous waste handling activity, *not to include treatment, recycling, or disposal* (see the definitions), that may involve the permitted storage of a dangerous waste prior to its ultimate treatment/disposal/recycling, whether on-site or off-site; and may involve the sorting, consolidating, and/or re-packaging of dangerous wastes received from off-site for purposes of more efficient management or transport. Examples of storage/transfer activities include:

- the sorting of lab packs received from generators to ascertain the quantities and identities of the various items in the pack in preparation for re-packaging of

the lab pack's contents for transport to ultimate treatment/recycling/disposal;

- the consolidation of waste in a container/tank for purposes of simplified, more economical transport to a facility for ultimate treatment/disposal/recycling; and
- the crushing of miscellaneous waste containers for more compact and efficient transport to ultimate treatment/disposal/ recycling.

**TCLP:** see *Toxicity Characteristic Leaching Procedure*.

**Toxicity Characteristic Leaching Procedure (TCLP):** a test procedure used to evaluate the characteristic of toxicity for purposes of designating a dangerous waste (see Helpful Hint #1 on page 2).

**TSDR Facility:** see *treatment/storage/disposal/recycling facility*.

**Transfer Facility:** any transportation-related facility, including loading docks, parking areas, storage areas, and other similar areas, where shipments of dangerous waste are held more than 10 days before transfer to a TSDR.

**Transportation:** the movement of dangerous waste by air, rail, highway, or water.

**Transporter:** a person engaged in the off-site transportation of dangerous waste.

**Treatment:** the physical, chemical, or biological processing of dangerous waste to make such wastes non-dangerous or less dangerous, safer for transport, amenable for energy or material resource recovery, amenable for storage, or reduced in volume, with the exception of compacting, repackaging, and sorting as allowed under WAC 173-303-400(2) and 173-303-600(3). Treatment includes any method, technique, or process designed to change the physical, chemical, or biological character or composition of any dangerous waste so as to:

- neutralize such waste,
- recover energy or material resources from the waste,
- render such waste non-dangerous or less hazardous,
- make it safer for transport, storage, or disposal, or
- make it amenable for recovery, amenable for storage, or reduce its volume.

**Treatment-by-generator:** the process by which generators may treat their own dangerous wastes on-site without obtaining a dangerous waste treatment

permit. Technical Information Memorandum #96-412 sets forth Ecology's guidance on how this activity may be done.

#### **Treatment/Storage/Disposal/Recycling**

**Facility:** all contiguous land and structures, other appurtenances, and improvements of the land used for recycling, reusing, reclaiming, transferring, treating, storing, or disposing of dangerous waste. Unless otherwise specified, the terms *treatment/storage/disposal/recycling facility*, *TSDR facility*, and *management facility* shall be used interchangeably.

**Universal Waste:** Wastes managed under the Universal Waste Rule (WAC 173-303-573) are not counted toward generator status and not reported on your dangerous waste annual reports. These include:

- Batteries—all batteries that designate as hazardous waste should be managed as universal waste. Spent lead-acid batteries may continue to be managed under the existing lead-acid battery exemption at WAC 173-303-520.
- Lamps—"lamp," also referred to as "universal waste lamp" means any type of high or low pressure bulb or tube portion of an electric lighting device that generates light through the discharge of electricity either directly or indirectly as radiant energy. Universal waste lamps include, but are not limited to, fluorescent, mercury vapor, metal halide, high-pressure sodium and neon. As a reference, it may be assumed that four, four-foot, one-inch diameter unbroken fluorescent tubes are equal to 2.2 pounds in weight.
- Mercury containing thermostats: A mercury containing thermostat is a temperature control device that contains metallic mercury in an ampule attached to a bimetal sensing element (this does not include all mercury switches). Ampules removed from these thermostats should also be managed under the universal waste requirements. Other types of mercury switches must be managed according to all applicable dangerous waste requirements.

**Used Oil Fuel Marketer:** Any person who conducts either of the following activities:

1. Directs a shipment of off-specification used oil from their site to an off-specification used oil burner; or
2. First claims that used oil that is to be burned for energy recovery meets the used oil fuel specifications set forth in CFR 279.11.

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**Used Oil Processor:** A site that processes on- or off-specification used oil.

**Used Oil Re-Refiner:** A site that produces lubricating oils and greases, industrial fuel, asphalt extender, gasoline, and other products from on- or off-specification used oil.

**Used Oil Transfer Facility:** Any transportation-related facility, including loading docks, parking areas, storage areas, and other areas where shipments of used oil are held for more than 24 hours during the normal course of transportation and not longer than 35 days. Transfer facilities that store used oil for more than 35 days are subject to regulation under 40 CFR Part 279, Subpart F.

**Used Oil Transporter:** Any person who transports used oil, who collects used oil from more than one generator and transports the collected oil, and owners and operators of used oil transfer facilities. Used oil transporters may consolidate or aggregate loads of used oil for purposes of transportation but, with the following exception, may not process used oil. Used oil transporters may conduct incidental processing operations that occur in the normal course of used oil transportation (e.g., settling and water separation), but that are not designed to produce (or make more amenable for production of) used oil-derived products or used oil fuel.

**Utility Boiler:** A boiler that is used to produce electricity, steam, or heated or cooled air for sale.

**WAC:** Washington Administrative Code. Chapter 173-303 WAC provides the Department of Ecology dangerous waste regulations.

**Waste:** all dangerous and hazardous waste regulated pursuant to Chapter 173-303 WAC and the federal RCRA regulation.

**Waste minimization:** the reduction, to the extent feasible, of dangerous waste that is generated or subsequently treated, stored, or disposed of. It includes any source reduction or recycling activity undertaken by a generator that results in (1) the reduction of total volume or quantity of dangerous waste; (2) the reduction of toxicity of dangerous waste; or (3) both, as long as the reduction is consistent with the goals of minimizing present and future threats to human health and the environment.



# CODES

## 1997 U.S. NAICS Code List\*\*

### AGRICULTURE, FORESTRY, FISHING & HUNTING

#### Crop Production

11111 Soybean Farming  
 11112 Oilseed (except Soybean) Farming  
 11113 Dry Pea & Bean Farming  
 11114 Wheat Farming  
 11115 Corn Farming  
 11116 Rice Farming  
 11119 Other Grain Farming  
 111191 Oilseed & Grain Combination Farming  
 111199 All Other Grain Farming  
 11121 Vegetable & Melon Farming  
 111211 Potato Farming  
 111219 Other Vegetable (except Potato) & Melon Farming  
 11131 Orange Groves  
 11132 Citrus (except Orange) Groves  
 11133 Noncitrus Fruit & Tree Nut Farming  
 111331 Apple Orchards  
 111332 Grape Vineyards  
 111333 Strawberry Farming  
 111334 Berry (except Strawberry) Farming  
 111335 Tree Nut Farming  
 111336 Fruit & Tree Nut Combination Farming  
 111339 Other Noncitrus Fruit Farming  
 11141 Food Crops Grown Under Cover  
 111411 Mushroom Production  
 111419 Other Food Crops Grown Under Cover  
 11142 Nursery & Floriculture Production  
 111421 Nursery & Tree Production  
 111422 Floriculture Production  
 11191 Tobacco Farming  
 11192 Cotton Farming  
 11193 Sugarcane Farming  
 11194 Hay Farming  
 11231 Chicken Egg Production  
 11232 Broilers & Other Meat Type Chicken Production  
 11233 Turkey Production  
 11234 Poultry Hatcheries  
 11239 Other Poultry Production  
 11241 Sheep Farming  
 11242 Goat Farming

11199 All Other Crop Farming  
 111991 Sugar Beet Farming  
 111992 Peanut Farming  
 111998 All Other Miscellaneous Crop Farming

#### Animal Production

11211 Beef Cattle Ranching & Farming, including Feedlots  
 112111 Beef Cattle Ranching & Farming  
 112112 Cattle Feedlots  
 11212 Dairy Cattle & Milk Production  
 11213 Dual Purpose Cattle Ranching & Farming  
 11221 Hog & Pig Farming  
 11251 Animal Aquaculture  
 112511 Finfish Farming & Fish Hatcheries  
 112512 Shellfish Farming  
 112519 Other Animal Aquaculture  
 11291 Apiculture  
 11292 Horse & Other Equine Production  
 11293 Fur-Bearing Animal & Rabbit Production  
 11299 All Other Animal Production

#### Forestry & Logging

11311 Timber Tract Operations  
 11321 Forest Nurseries & Gathering of Forest Products  
 11331 Logging

#### Fishing, Hunting & Trapping

11411 Fishing  
 114111 Finfish Fishing  
 114112 Shellfish Fishing  
 114119 Other Marine Fishing  
 11421 Hunting & Trapping

#### Support Activities for Agriculture & Forestry

11511 Support Activities for Crop Production  
 115111 Cotton Ginning  
 115112 Soil Preparation, Planting, & Cultivating  
 115113 Crop Harvesting, Primarily by Machine  
 115114 Postharvest Crop Activities (except Cotton Ginning)  
 115115 Farm Labor Contractors & Crew Leaders  
 115116 Farm Management Services

\*\* Five digit = NAICS Industry Six digit = U. S. Industry

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## Dangerous Waste Annual Report

*SIC Codes, continued*

- 11521 Support Activities for Animal Production
- 11531 Support Activities for Forestry

### Mining

#### Oil & Gas Extraction

- 21111 Oil and Gas Extraction
- 211111 Crude Petroleum  
and Natural Gas Extraction
- 211112 Natural gas Liquid Extraction

#### Mining (except Oil & Gas)

- 212111 Bituminous Coal & Lignite Surface Mining
- 212112 Bituminous Coal Underground Mining
- 212113 Anthracite Mining
- 21221 Iron Ore Mining
- 21222 Gold Ore & Silver Ore Mining
- 212221 Gold Ore Mining
- 212222 Silver Ore Mining
- 21223 Copper, Nickel, Lead, & Zinc Mining
- 212231 Lead Ore & Zinc Ore Mining
- 212234 Copper Ore & Nickel Ore Mining
- 21229 Other Metal Ore Mining
- 212291 Uranium-Radium-Vanadium Ore Mining
- 212299 All Other Metal Ore Mining
- 21231 Stone Mining & Quarrying
- 212311 Dimension Stone Mining & Quarrying
- 212312 Crushed & Broken Limestone  
Mining & Quarrying
- 212313 Crushed & Broken Granite  
Mining & Quarrying
- 212319 Other Crushed & Broken Stone  
Mining & Quarrying
- 21232 Sand, Gravel, Clay, & Ceramic  
& Refractory Minerals Mining & Quarrying
- 212321 Construction Sand & Gravel Mining
- 212322 Industrial Sand Mining
- 212324 Kaolin & Ball Clay Mining
- 212325 Clay & Ceramic & Refractory  
Minerals Mining
- 21239 Other Nonmetallic Mineral Mining  
& Quarrying
- 212391 Potash, Soda, & Borate Mineral Mining
- 212392 Phosphate Rock Mining
- 212393 Other Chemical & Fertilizer Mineral Mining
- 212399 All Other Nonmetallic Mineral Mining

#### Support Activities for Mining

- 21311 Support Activities for Mining
- 213111 Drilling Oil & Gas Wells
- 213112 Support Activities for Oil & Gas Operations
- 213113 Support Activities for Coal Mining
- 213114 Support Activities for Metal Mining
- 213115 Support Activities for Nonmetallic Minerals  
(except Fuels)

### Utilities

#### Utilities

- 22111 Electric Power Generation
- 221111 Hydroelectric Power Generation
- 221112 Fossil Fuel Electric Power Generation
- 221113 Nuclear Electric Power Generation
- 221119 Other Electric Power Generation
- 22112 Electric Power Transmission,  
Control, & Distribution
- 221121 Electric Bulk Power Transmission & Control
- 221122 Electric Power Distribution
- 22121 Natural Gas Distribution
- 22131 Water Supply & Irrigation Systems
- 22132 Sewage Treatment Facilities
- 22133 Steam & Air-Conditioning Supply

### Construction

#### Building, Developing, & General Contracting

- 23311 Land Subdivision & Land Development
- 23321 Single Family Housing Construction
- 23322 Multifamily Housing Construction
- 23331 Mfg & Industrial Building Construction
- 23332 Commercial & Institutional  
Building Construction

#### Heavy Construction

- 23411 Highway & Street Construction
- 23412 Bridge & Tunnel Construction
- 23491 Water, Sewer, & Pipeline Construction
- 23492 Power & Communication Transmission  
Line Construction
- 23493 Industrial Nonbuilding Structure Construction
- 23499 All Other Heavy Construction

#### Special Trade Contractors

- 23511 Plumbing, Heating, & Air-Conditioning  
Contractors
- 23521 Painting & Wall Covering Contractors
- 23531 Electrical Contractors
- 23541 Masonry & Stone Contractors
- 23542 Drywall, Plastering, Acoustical, &  
Insulation Contractors
- 23543 Tile, Marble, Terrazzo, & Mosaic Contractors
- 23551 Carpentry Contractors
- 23552 Floor Laying & Other Floor Contractors
- 23561 Roofing, Siding, & Sheet Metal Contractors
- 23571 Concrete Contractors
- 23581 Water Well Drilling Contractors
- 23591 Structural Steel Erection Contractors
- 23592 Glass & Glazing Contractors
- 23593 Excavation Contractors
- 23594 Wrecking & Demolition Contractors
- 23595 Building Equipment & Other Machinery  
Installation Contractors
- 23599 All Other Special Trade Contractors

SIC Codes, continued

**Manufacturing****Food Mfg**

31111 Animal Food Mfg  
 311111 Dog & Cat Food Mfg  
 311119 Other Animal Food Mfg  
 31121 Flour Milling & Malt Mfg  
 311211 Flour Milling  
 311212 Rice Milling  
 311213 Malt Mfg  
 31122 Starch & Vegetable Fats & Oils Mfg  
 311221 Wet Corn Milling  
 311222 Soybean Processing  
 311223 Other Oilseed Processing  
 311225 Fats & Oils Refining & Blending  
 31123 Breakfast Cereal Mfg  
 31131 Sugar Mfg  
 311311 Sugarcane Mills  
 311312 Cane Sugar Refining  
 311313 Beet Sugar Mfg  
 31132 Chocolate & Confectionery  
     Mfg from Cacao Beans  
 31133 Confectionery Mfg from  
     Purchased Chocolate  
 31134 Nonchocolate Confectionery Mfg  
 31141 Frozen Food Mfg  
 311411 Frozen Fruit, Juice, & Vegetable Mfg  
 311412 Frozen Specialty Food Mfg  
 31142 Fruit & Vegetable Canning,  
     Pickling, & Drying  
 311421 Fruit & Vegetable Canning  
 311422 Specialty Canning  
 311423 Dried & Dehydrated Food Mfg  
 31151 Dairy Product (except Frozen) Mfg  
 311511 Fluid Milk Mfg  
 311512 Creamery Butter Mfg  
 311513 Cheese Mfg  
 311514 Dry, Condensed,  
     & Evaporated Dairy Product Mfg  
 31152 Ice Cream & Frozen Dessert Mfg  
 31161 Animal Slaughtering & Processing  
 311611 Animal (except Poultry) Slaughtering  
 311612 Meat Processed from Carcasses  
 311613 Rendering & Meat Byproduct Processing  
 311615 Poultry Processing  
 31171 Seafood Product Preparation & Packaging  
 311711 Seafood Canning  
 311712 Fresh & Frozen Seafood Processing  
 31181 Bread & Bakery Product Mfg  
 311811 Retail Bakeries  
 311812 Commercial Bakeries  
 311813 Frozen Cakes, Pies, & Other Pastries Mfg  
 31182 Cookie, Cracker, & Pasta Mfg  
 311821 Cookie & Cracker Mfg  
 311822 Flour Mixes & Dough Mfg from  
     Purchased Flour  
 311823 Dry Pasta Mfg

31183 Tortilla Mfg  
 31191 Snack Food Mfg  
 311911 Roasted Nuts & Peanut Butter Mfg  
 311919 Other Snack Food Mfg  
 31192 Coffee & Tea Mfg  
 31193 Flavoring Syrup & Concentrate Mfg  
 31194 Seasoning & Dressing Mfg  
 311941 Mayonnaise, Dressing,  
     & Other Prepared Sauce Mfg  
 311942 Spice & Extract Mfg  
 31199 All Other Food Mfg  
 311991 Perishable Prepared Food Mfg  
 311999 All Other Miscellaneous Food Mfg

**Beverage & Tobacco Product Mfg**

31211 Soft Drink & Ice Mfg  
 312111 Soft Drink Mfg  
 312112 Bottled Water Mfg  
 312113 Ice Mfg  
 31212 Breweries  
 31213 Wineries  
 31214 Distilleries  
 31221 Tobacco Stemming & Redrying  
 31222 Tobacco Product Mfg  
 312221 Cigarette Mfg  
 312229 Other Tobacco Product Mfg

**Textile Mills**

31311 Fiber, Yarn, & Thread Mills  
 313111 Yarn Spinning Mills  
 313112 Yarn Texturizing, Throwing, & Twisting Mills  
 313113 Thread Mills  
 31321 Broadwoven Fabric Mills  
 31322 Narrow Fabric Mills  
     & Schiffli Machine Embroidery  
 313221 Narrow Fabric Mills  
 313222 Schiffli Machine Embroidery  
 31323 Nonwoven Fabric Mills  
 31324 Knit Fabric Mills  
 313241 Weft Knit Fabric Mills  
 313249 Other Knit Fabric & Lace Mills  
 31331 Textile & Fabric Finishing Mills  
 313311 Broadwoven Fabric Finishing Mills  
 313312 Textile & Fabric Finishing  
     (except Broadwoven Fabric) Mills  
 31332 Fabric Coating Mills

**Textile Product Mills**

31411 Carpet & Rug Mills  
 31412 Curtain & Linen Mills  
 314121 Curtain & Drapery Mills  
 314129 Other Household Textile Product Mills  
 Textile Bag & Canvas Mills  
 314911 Textile Bag Mills  
 314912 Canvas & Related Product Mills  
 31499 All Other Textile Product Mills

## Dangerous Waste Annual Report

*SIC Codes, continued*

314991 Rope, Cordage, & Twine Mills  
314992 Tire Cord & Tire Fabric Mills  
314999 All Other Miscellaneous  
Textile Product Mills

### **Apparel Mfg**

31511 Hosiery & Sock Mills  
315111 Sheer Hosiery Mills  
315119 Other Hosiery & Sock Mills  
31519 Other Apparel Knitting Mills  
315191 Outerwear Knitting Mills  
315192 Underwear & Nightwear Knitting Mills  
31521 Cut & Sew Apparel Contractors  
315211 Men's & Boys' Cut &  
Sew Apparel Contractors  
315212 Women's, Girls', & Infants'  
Cut & Sew Apparel Contractors  
31522 Men's & Boys' Cut & Sew Apparel Mfg  
315221 Men's & Boys' Cut & Sew Underwear  
& Nightwear Mfg  
315222 Men's & Boys' Cut & Sew Suit, Coat,  
& Overcoat Mfg  
315223 Men's & Boys' Cut & Sew Shirt  
(except Work Shirt) Mfg  
315224 Men's & Boys' Cut  
& Sew Trouser, Slack, & Jean Mfg  
315225 Men's & Boys' Cut  
& Sew Work Clothing Mfg  
315228 Men's & Boys' Cut  
& Sew Other Outerwear Mfg  
31523 Women's & Girls' Cut & Sew Apparel Mfg  
315231 Women's & Girls' Cut & Sew Lingerie,  
Loungewear, & Nightwear Mfg  
315232 Women's & Girls' Cut  
& Sew Blouse & Shirt Mfg  
315233 Women's & Girls' Cut & Sew Dress Mfg  
315234 Women's & Girls' Cut & Sew Suit, Coat,  
Tailored Jacket, & Skirt Mfg  
315239 Women's & Girls' Cut & Sew  
Other Outerwear Mfg  
31529 Other Cut & Sew Apparel Mfg  
315291 Infants' Cut & Sew Apparel Mfg  
315292 Fur & Leather Apparel Mfg  
315299 All Other Cut & Sew Apparel Mfg  
31599 Apparel Accessories & Other Apparel Mfg  
315991 Hat, Cap, & Millinery Mfg  
315992 Glove & Mitten Mfg  
315993 Men's & Boys' Neckwear Mfg  
315999 Other Apparel Accessories  
& Other Apparel Mfg

### **Leather & Allied Product Mfg**

31611 Leather & Hide Tanning & Finishing  
31621 Footwear Mfg  
316211 Rubber & Plastics Footwear Mfg  
316212 House Slipper Mfg

316213 Men's Footwear (except Athletic) Mfg  
316214 Women's Footwear (except Athletic) Mfg  
316219 Other Footwear Mfg  
31699 Other Leather & Allied Product Mfg  
316991 Luggage Mfg  
316992 Women's Handbag & Purse Mfg  
316993 Personal Leather Good  
(except Women's Handbag & Purse) Mfg  
316999 All Other Leather Good Mfg

### **Wood Product Mfg**

32111 Sawmills & Wood Preservation  
321113 Sawmills  
321114 Wood Preservation  
32121 Veneer, Plywood, & Engineered Wood  
Product Mfg  
321211 Hardwood Veneer & Plywood Mfg  
321212 Softwood Veneer & Plywood Mfg  
321213 Engineered Wood Member (except Truss) Mfg  
321214 Truss Mfg  
321219 Reconstituted Wood Product Mfg  
32191 Millwork  
321911 Wood Window & Door Mfg  
321912 Cut Stock, Resawing Lumber, & Planing  
321918 Other Millwork (including Flooring)  
32192 Wood Container & Pallet Mfg  
32199 All Other Wood Product Mfg  
321991 Manufactured Home (Mobile Home) Mfg  
321992 Prefabricated Wood Building Mfg  
321999 All Other Miscellaneous Wood Product Mfg

### **Paper Mfg**

32211 Pulp Mills  
32212 Paper Mills  
322121 Paper (except Newsprint) Mills  
322122 Newsprint Mills  
32213 Paperboard Mills  
32221 Paperboard Container Mfg  
322211 Corrugated & Solid Fiber Box Mfg  
322212 Folding Paperboard Box Mfg  
322213 Setup Paperboard Box Mfg  
322214 Fiber Can, Tube, Drum, & Similar Products Mfg  
322215 Nonfolding Sanitary Food Container Mfg  
32222 Paper Bag & Coated & Treated Paper Mfg  
322221 Coated & Laminated Packaging Paper  
& Plastics Film Mfg  
322222 Coated & Laminated Paper Mfg  
322223 Plastics, Foil, & Coated Paper Bag Mfg  
322224 Uncoated Paper & Multiwall Bag Mfg  
322225 Laminated Aluminum Foil Mfg  
for Flexible Packaging Uses  
322226 Surface-Coated Paperboard Mfg  
32223 Stationery Product Mfg  
322231 Die-Cut Paper & Paperboard  
Office Supplies Mfg  
322232 Envelope Mfg  
322233 Stationery, Tablet, & Related Product Mfg

## SIC Codes, continued

32229 Other Converted Paper Product Mfg  
 322291 Sanitary Paper Product Mfg  
 322299 All Other Converted Paper Product Mfg

**Printing & Related Support Activities**

32311 Printing  
 323110 Commercial Lithographic Printing  
 323111 Commercial Gravure Printing  
 323112 Commercial Flexographic Printing  
 323113 Commercial Screen Printing  
 323114 Quick Printing  
 323115 Digital Printing  
 323116 Manifold Business Forms Printing  
 323117 Books Printing  
 323118 Blankbook, Looseleaf Binders, & Devices Mfg  
 323119 Other Commercial Printing  
 32312 Support Activities for Printing  
 323121 Tradebinding & Related Work  
 323122 Prepress Services

**Petroleum & Coal Products Mfg**

32411 Petroleum Refineries  
 32412 Asphalt Paving, Roofing,  
 & Saturated Materials Mfg  
 324121 Asphalt Paving Mixture & Block Mfg  
 324122 Asphalt Shingle & Coating Materials Mfg  
 32419 Other Petroleum & Coal Products Mfg  
 324191 Petroleum Lubricating Oil & Grease Mfg  
 324199 All Other Petroleum & Coal Products Mfg

**Chemical Mfg**

32511 Petrochemical Mfg  
 32512 Industrial Gas Mfg  
 32513 Synthetic Dye & Pigment Mfg  
 325131 Inorganic Dye & Pigment Mfg  
 325132 Synthetic Organic Dye & Pigment Mfg  
 32518 Other Basic Inorganic Chemical Mfg  
 325181 Alkalies & Chlorine Mfg  
 325182 Carbon Black Mfg  
 325188 All Other Basic Inorganic Chemical Mfg  
 32519 Other Basic Organic Chemical Mfg  
 325191 Gum & Wood Chemical Mfg  
 325192 Cyclic Crude & Intermediate Mfg  
 325193 Ethyl Alcohol Mfg  
 325199 All Other Basic Organic Chemical Mfg  
 32521 Resin & Synthetic Rubber Mfg  
 325211 Plastics Material & Resin Mfg  
 325212 Synthetic Rubber Mfg  
 32522 Artificial & Synthetic Fibers & Filaments Mfg  
 325221 Cellulosic Organic Fiber Mfg  
 325222 Noncellulosic Organic Fiber Mfg  
 32531 Fertilizer Mfg  
 325311 Nitrogenous Fertilizer Mfg  
 325312 Phosphatic Fertilizer Mfg  
 325314 Fertilizer (Mixing Only) Mfg  
 32532 Pesticide & Other Agricultural Chemical Mfg  
 32541 Pharmaceutical & Medicine Mfg

325411 Medicinal & Botanical Mfg  
 325412 Pharmaceutical Preparation Mfg  
 325413 In-Vitro Diagnostic Substance Mfg  
 325414 Biological Product (except Diagnostic) Mfg  
 32551 Paint & Coating Mfg  
 32552 Adhesive Mfg  
 32561 Soap & Cleaning Compound Mfg  
 325611 Soap & Other Detergent Mfg  
 325612 Polish & Other Sanitation Good Mfg  
 325613 Surface Active Agent Mfg  
 32562 Toilet Preparation Mfg  
 32591 Printing Ink Mfg  
 32592 Explosives Mfg  
 32599 All Other Chemical Product & Preparation Mfg  
 325991 Custom Compounding of Purchased Resins  
 325992 Photographic Film, Paper, Plate,  
 & Chemical Mfg  
 325998 All Other Miscellaneous Chemical Product  
 & Preparation Mfg

**Plastics & Rubber Products Mfg**

32611 Unsupported Plastics Film, Sheet, & Bag Mfg  
 326111 Unsupported Plastics Bag Mfg  
 326112 Unsupported Plastics Packaging Film  
 & Sheet Mfg  
 326113 Unsupported Plastics Film & Sheet  
 (except packaging) Mfg  
 32612 Plastics Pipe, Pipe Fitting,  
 & Unsupported Profile Shape Mfg  
 326121 Unsupported Plastics Profile Shape Mfg  
 326122 Plastics Pipe & Pipe Fitting Mfg  
 32613 Laminated Plastics Plate, Sheet, & Shape Mfg  
 32614 Polystyrene Foam Product Mfg  
 32615 Urethane & Other Foam Product  
 (except Polystyrene) Mfg  
 32616 Plastics Bottle Mfg  
 32619 Other Plastics Product Mfg  
 326191 Plastics Plumbing Fixture Mfg  
 326192 Resilient Floor Covering Mfg  
 326199 All Other Plastics Product Mfg  
 32621 Tire Mfg  
 326211 Tire Mfg (except Retreading)  
 326212 Tire Retreading  
 32622 Rubber & Plastics Hoses & Belting Mfg  
 32629 Other Rubber Product Mfg  
 326291 Rubber Product Mfg for Mechanical Use  
 326299 All Other Rubber Product Mfg

**Nonmetallic Mineral Product Mfg**

32711 Pottery, Ceramics, & Plumbing Fixture Mfg  
 327111 Vitreous China Plumbing Fixture  
 & China & Earthenware Bathroom Accessories Mfg  
 327112 Vitreous China, Fine Earthenware,  
 & Other Pottery Product Mfg  
 327113 Porcelain Electrical Supply Mfg  
 32712 Clay Building Material & Refractories Mfg  
 327121 Brick & Structural Clay Tile Mfg

# Dangerous Waste Annual Report

SIC Codes, continued

CODES

327122 Ceramic Wall & Floor Tile Mfg  
 327123 Other Structural Clay Product Mfg  
 327124 Clay Refractory Mfg  
 327125 Nonclay Refractory Mfg  
 32721 Glass & Glass Product Mfg  
 327211 Flat Glass Mfg  
 327212 Other Pressed & Blown Glass  
 & Glassware Mfg  
 327213 Glass Container Mfg  
 327215 Glass Product Mfg  
 Made of Purchased Glass  
 32731 Cement Mfg  
 32732 Ready-Mix Concrete Mfg  
 32733 Concrete Pipe, Brick, & Block Mfg  
 327331 Concrete Block & Brick Mfg  
 327332 Concrete Pipe Mfg  
 32739 Other Concrete Product Mfg  
 32741 Lime Mfg  
 32742 Gypsum Product Mfg  
 32791 Abrasive Product Mfg  
 32799 All Other Nonmetallic Mineral Product Mfg  
 327991 Cut Stone & Stone Product Mfg  
 327992 Ground or Treated Mineral & Earth Mfg  
 327993 Mineral Wool Mfg  
 327999 All Other Miscellaneous  
 Nonmetallic Mineral Product Mfg

**Primary Metal Mfg**  
 33111 Iron & Steel Mills & Ferroalloy Mfg  
 331111 Iron & Steel Mills  
 331112 Electrometallurgical Ferroalloy Product Mfg  
 33121 Iron & Steel Pipe & Tube Mfg  
 from Purchased Steel  
 33122 Rolling & Drawing of Purchased Steel  
 331221 Rolled Steel Shape Mfg  
 331222 Steel Wire Drawing  
 33131 Alumina & Aluminum Production  
 & Processing  
 331311 Alumina Refining  
 331312 Primary Aluminum Production  
 331314 Secondary Smelting & Alloying of Aluminum  
 331315 Aluminum Sheet, Plate, & Foil Mfg  
 331316 Aluminum Extruded Product Mfg  
 331319 Other Aluminum Rolling & Drawing  
 33141 Nonferrous Metal (except Aluminum)  
 Smelting & Refining  
 331411 Primary Smelting & Refining of Copper  
 331419 Primary Smelting & Refining of Nonferrous  
 Metal (except Copper & Aluminum)  
 33142 Copper Rolling, Drawing, Extruding, &  
 Alloying  
 331421 Copper Rolling, Drawing, & Extruding  
 331422 Copper Wire (except Mechanical) Drawing  
 331423 Secondary Smelting, Refining,  
 & Alloying of Copper

33149 Nonferrous Metal (except Copper &  
 Aluminum) Rolling, Drawing, Extruding, &  
 Alloying  
 331491 Nonferrous Metal (except Copper &  
 Aluminum) Rolling, Drawing, & Extruding  
 331492 Secondary Smelting, Refining, & Alloying  
 of Nonferrous Metal (except Copper &  
 Aluminum)  
 33151 Ferrous Metal Foundries  
 331511 Iron Foundries  
 331512 Steel Investment Foundries  
 331513 Steel Foundries (except Investment)  
 33152 Nonferrous Metal Foundries  
 331521 Aluminum Die-Casting Foundries  
 331522 Nonferrous (except Aluminum)  
 Die-Casting Foundries  
 331524 Aluminum Foundries (except Die-Casting)  
 331525 Copper Foundries (except Die-Casting)  
 331528 Other Nonferrous Foundries  
 (except Die-Casting)

## Fabricated Metal Product Mfg

33211 Forging & Stamping  
 332111 Iron & Steel Forging  
 332112 Nonferrous Forging  
 332114 Custom Roll Forming  
 332115 Crown & Closure Mfg  
 332116 Metal Stamping  
 332117 Powder Metallurgy Part Mfg  
 33221 Cutlery & Handtool Mfg  
 332211 Cutlery & Flatware (except Precious) Mfg  
 332212 Hand & Edge Tool Mfg  
 332213 Saw Blade & Handsaw Mfg  
 332214 Kitchen Utensil, Pot, & Pan Mfg  
 33231 Plate Work & Fabricated Structural  
 Product Mfg  
 332311 Prefabricated Metal Building  
 & Component Mfg  
 332312 Fabricated Structural Metal Mfg  
 332313 Plate Work Mfg  
 33232 Ornamental & Architectural Metal  
 Products Mfg  
 332321 Metal Window & Door Mfg  
 332322 Sheet Metal Work Mfg  
 332323 Ornamental & Architectural Metal Work Mfg  
 33241 Power Boiler & Heat Exchanger Mfg  
 33242 Metal Tank (Heavy Gauge) Mfg  
 33243 Metal Can, Box, & Other Metal  
 Container (Light Gauge) Mfg  
 332431 Metal Can Mfg  
 332439 Other Metal Container Mfg  
 33251 Hardware Mfg  
 33261 Spring & Wire Product Mfg  
 332611 Spring (Heavy Gauge) Mfg  
 332612 Spring (Light Gauge) Mfg  
 332618 Other Fabricated Wire Product Mfg  
 33271 Machine Shops

## Codes

### SIC Codes, continued

33272 Turned Product & Screw, Nut, & Bolt Mfg  
 332721 Precision Turned Product Mfg  
 332722 Bolt, Nut, Screw, Rivet, & Washer Mfg  
 33281 Coating, Engraving, Heat Treating, & Allied Activities  
 332811 Metal Heat Treating  
 332812 Metal Coating, Engraving (except Jewelry & Silverware), & Allied Services to Mfrs  
 332813 Electroplating, Plating, Polishing, Anodizing, & Coloring  
 33291 Metal Valve Mfg  
 332911 Industrial Valve Mfg  
 332912 Fluid Power Valve & Hose Fitting Mfg  
 332913 Plumbing Fixture Fitting & Trim Mfg  
 332919 Other Metal Valve & Pipe Fitting Mfg  
 33299 All Other Fabricated Metal Product Mfg  
 332991 Ball & Roller Bearing Mfg  
 332992 Small Arms Ammunition Mfg  
 332993 Ammunition (except Small Arms) Mfg  
 332994 Small Arms Mfg  
 332995 Other Ordnance & Accessories Mfg  
 332996 Fabricated Pipe & Pipe Fitting Mfg  
 332997 Industrial Pattern Mfg  
 332998 Enameled Iron & Metal Sanitary Ware Mfg  
 332999 All Other Miscellaneous Fabricated Metal Product Mfg

### Machinery Manufacturing

33311 Agricultural Implement Mfg  
 333111 Farm Machinery & Equipment Mfg  
 333112 Lawn & Garden Tractor & Home Lawn & Garden Equipment Mfg  
 33312 Construction Machinery Mfg  
 33313 Mining & Oil & Gas Field Machinery Mfg  
 333131 Mining Machinery & Equipment Mfg  
 333132 Oil & Gas Field Machinery & Equipment Mfg  
 33321 Sawmill & Woodworking Machinery Mfg  
 33322 Plastics & Rubber Industry Machinery Mfg  
 33329 Other Industrial Machinery Mfg  
 333291 Paper Industry Machinery Mfg  
 333292 Textile Machinery Mfg  
 333293 Printing Machinery & Equipment Mfg  
 333294 Food Product Machinery Mfg  
 333295 Semiconductor Machinery Mfg  
 333298 All Other Industrial Machinery Mfg  
 33331 Commercial & Service Industry Machinery Mfg  
 333311 Automatic Vending Machine Mfg  
 333312 Commercial Laundry, Drycleaning, & Pressing Machine Mfg  
 333313 Office Machinery Mfg  
 333314 Optical Instrument & Lens Mfg  
 333315 Photographic & Photocopying Equipment Mfg  
 333319 Other Commercial & Service Industry Machinery Mfg

33341 Ventilation, Heating, Air-Conditioning, & Commercial Refrigeration Equipment Mfg  
 333411 Air Purification Equipment Mfg  
 333412 Industrial & Commercial Fan & Blower Mfg  
 333414 Heating Equipment (except Warm Air Furnaces) Mfg  
 333415 Air-Conditioning, Warm Air Heating Equipment, Commercial & Industrial Refrigeration Equipment Mfg  
 33351 Metalworking Machinery Mfg  
 333511 Industrial Mold Mfg  
 333512 Machine Tool (Metal Cutting Types) Mfg  
 333513 Machine Tool (Metal Forming Types) Mfg  
 333514 Special Die & Tool, Die Set, Jig, & Fixture Mfg  
 333515 Cutting Tool & Machine Tool Accessory Mfg  
 333516 Rolling Mill Machinery & Equipment Mfg  
 333518 Other Metalworking Machinery Mfg  
 33361 Engine, Turbine, & Power Transmission Equipment Mfg  
 333611 Turbine & Turbine Generator Set Units Mfg  
 333612 Speed Changer, Industrial High-Speed Drive, & Gear Mfg  
 333613 Mechanical Power Transmission Equipment Mfg  
 333618 Other Engine Equipment Mfg  
 33391 Pump & Compressor Mfg  
 333911 Pump & Pumping Equipment Mfg  
 333912 Air & Gas Compressor Mfg  
 333913 Measuring & Dispensing Pump Mfg  
 33392 Material Handling Equipment Mfg  
 333921 Elevator & Moving Stairway Mfg  
 333922 Conveyor & Conveying Equipment Mfg  
 333923 Overhead Traveling Crane, Hoist, & Monorail System Mfg  
 333924 Industrial Truck, Tractor, Trailer, & Stacker Machinery Mfg  
 33399 All Other General Purpose Machinery Mfg  
 333991 Power-Driven Handtool Mfg  
 333992 Welding & Soldering Equipment Mfg  
 333993 Packaging Machinery Mfg  
 333994 Industrial Process Furnace & Oven Mfg  
 333995 Fluid Power Cylinder & Actuator Mfg  
 333996 Fluid Power Pump & Motor Mfg  
 333997 Scale & Balance (except Laboratory) Mfg  
 333999 All Other Miscellaneous General Purpose Machinery Mfg

### Computer & Electronic Product Mfg

33411 Computer & Peripheral Equipment Mfg  
 334111 Electronic Computer Mfg  
 334112 Computer Storage Device Mfg  
 334113 Computer Terminal Mfg  
 334119 Other Computer Peripheral Equipment Mfg  
 33421 Telephone Apparatus Mfg  
 33422 Radio & Television Broadcasting & wireless Communications Equipment Mfg

# Dangerous Waste Annual Report

SIC Codes, continued

CODES

33429 Other Communications Equipment Mfg  
 33431 Audio & Video Equipment Mfg  
 33441 Semiconductor & Other Electronic Component Mfg  
 334411 Electron Tube Mfg  
 334412 Bare Printed Circuit Board Mfg  
 334413 Semiconductor & Related Device Mfg  
 334414 Electronic Capacitor Mfg  
 334415 Electronic Resistor Mfg  
 334416 Electronic Coil, Transformer, & Other Inductor Mfg  
 334417 Electronic Connector Mfg  
 334418 Printed Circuit Assembly (Electronic Assembly) Mfg  
 334419 Other Electronic Component Mfg  
 33451 Navigational, Measuring, Electromedical, & Control Instruments Mfg  
 334510 Electromedical & Electrotherapeutic Apparatus Mfg  
 334511 Search, Detection, Navigation, Guidance, Aeronautical, & Nautical System & Instrument Mfg  
 334512 Automatic Environmental Control Mfg for Residential, Commercial, & Appliance Use  
 334513 Instruments & Related Products Mfg. for Measuring, Displaying, Controlling Industrial Process Variables  
 334514 Totalizing Fluid Meter & Counting Device Mfg  
 334515 Instrument Mfg for Measuring & Testing Electricity & Electrical Signals  
 334516 Analytical Laboratory Instrument Mfg  
 334517 Irradiation Apparatus Mfg  
 334518 Watch, Clock, & Part Mfg  
 334519 Other Measuring & Controlling Device Mfg  
 33461 Mfg & Reproducing Magnetic & Optical Media  
 334611 Software Reproducing  
 334612 Prerecorded Compact Disc (except Software), Tape, & Record Reproducing  
 334613 Magnetic & Optical Recording Media Mfg

## Electrical Equipment, Appliance, & Component Mfg

33511 Electric Lamp Bulb & Part Mfg  
 33512 Lighting Fixture Mfg  
 335121 Residential Electric Lighting Fixture Mfg  
 335122 Commercial, Industrial, & Institutional Electric Lighting Fixture Mfg  
 335129 Other Lighting Equipment Mfg  
 33521 Small Electrical Appliance Mfg  
 335211 Electric Housewares & Household Fan Mfg  
 335212 Household Vacuum Cleaner Mfg  
 33522 Major Appliance Mfg  
 335221 Household Cooking Appliance Mfg

335222 Household Refrigerator & Home Freezer Mfg  
 335224 Household Laundry Equipment Mfg  
 335228 Other Major Household Appliance Mfg  
 33531 Electrical Equipment Mfg  
 335311 Power, Distribution, & Specialty Transformer Mfg  
 335312 Motor & Generator Mfg  
 335313 Switchgear & Switchboard Apparatus Mfg  
 335314 Relay & Industrial Control Mfg  
 33591 Battery Mfg  
 335911 Storage Battery Mfg  
 335912 Primary Battery Mfg  
 33592 Communication & Energy Wire & Cable Mfg  
 335921 Fiber Optic Cable Mfg  
 335929 Other Communication & Energy Wire Mfg  
 33593 Wiring Device Mfg  
 335931 Current-Carrying Wiring Device Mfg  
 335932 Noncurrent-Carrying Wiring Device Mfg  
 33599 All Other Electrical Equipment & Component Mfg  
 335991 Carbon & Graphite Product Mfg  
 335999 All Other Miscellaneous Electrical Equipment & Component Mfg

## Transportation Equipment Mfg

33611 Automobile & Light Duty Motor Vehicle Mfg  
 336111 Automobile Mfg  
 336112 Light Truck & Utility Vehicle Mfg  
 33612 Heavy Duty Truck Mfg  
 33621 Motor Vehicle Body & Trailer Mfg  
 336211 Motor Vehicle Body Mfg  
 336212 Truck Trailer Mfg  
 336213 Motor Home Mfg  
 336214 Travel Trailer & Camper Mfg  
 33631 Motor Vehicle Gasoline Engine & Engine Parts Mfg  
 336311 Carburetor, Piston, Piston Ring, & Valve Mfg  
 336312 Gasoline Engine & Engine Parts Mfg  
 33632 Motor Vehicle Electrical & Electronic Equipment Mfg  
 336321 Vehicular Lighting Equipment Mfg  
 336322 Other Motor Vehicle Electrical & Electronic Equipment Mfg  
 33633 Motor Vehicle Steering & Suspension Components (except Spring) Mfg  
 33634 Motor Vehicle Brake System Mfg  
 33635 Motor Vehicle Transmission & Power Train Parts Mfg  
 33636 Motor Vehicle Seating & Interior Trim Mfg  
 33637 Motor Vehicle Metal Stamping  
 33639 Other Motor Vehicle Parts Mfg  
 336391 Motor Vehicle Air-Conditioning Mfg  
 336399 All Other Motor Vehicle Parts Mfg

## Codes

### SIC Codes, continued

33641 Aerospace Product & Parts Mfg  
 336411 Aircraft Mfg  
 336412 Aircraft Engine & Engine Parts Mfg  
 336413 Other Aircraft Parts  
 & Auxiliary Equipment Mfg  
 336414 Guided Missile & Space Vehicle Mfg  
 336415 Guided Missile & Space Vehicle Propulsion  
 Unit & Propulsion Unit Parts Mfg  
 336419 Other Guided Missile & Space Vehicle  
 Parts & Auxiliary Equipment Mfg  
 33651 Railroad Rolling Stock Mfg  
 33661 Ship & Boat Building  
 336611 Ship Building & Repairing  
 336612 Boat Building  
 33699 Other Transportation Equipment Mfg  
 336991 Motorcycle, Bicycle, & Parts Mfg  
 336992 Military Armored Vehicle, Tank, & Tank  
 Component Mfg  
 336999 All Other Transportation Equipment Mfg

#### Furniture & Related Product Mfg

33711 Wood Kitchen Cabinet & Countertop Mfg  
 33712 Household & Institutional Furniture Mfg  
 337121 Upholstered Household Furniture Mfg  
 337122 Nonupholstered Wood Household  
 Furniture Mfg  
 337124 Metal Household Furniture Mfg  
 337125 Household Furniture (except Wood &  
 Metal) Mfg  
 337127 Institutional Furniture Mfg  
 337129 Wood Television, Radio,  
 & Sewing Machine Cabinet Mfg  
 33721 Office Furniture (including Fixtures) Mfg  
 337211 Wood Office Furniture Mfg  
 337212 Custom Architectural Woodwork  
 & Millwork Mfg  
 337214 Office Furniture (except Wood) Mfg  
 337215 Showcase, Partition, Shelving,  
 & Locker Mfg  
 33791 Mattress Mfg  
 33792 Blind & Shade Mfg

#### Miscellaneous Mfg

33911 Medical Equipment & Supplies Mfg  
 339111 Laboratory Apparatus & Furniture Mfg  
 339112 Surgical & Medical Instrument Mfg  
 339113 Surgical Appliance & Supplies Mfg  
 339114 Dental Equipment & Supplies Mfg  
 339115 Ophthalmic Goods Mfg  
 339116 Dental Laboratories  
 33991 Jewelry & Silverware Mfg  
 339911 Jewelry (except Costume) Mfg  
 339912 Silverware & Hollowware Mfg  
 339913 Jewelers' Material & Lapidary Work Mfg  
 339914 Costume Jewelry & Novelty Mfg  
 33992 Sporting & Athletic Goods Mfg  
 33993 Doll, Toy, & Game Mfg

339931 Doll & Stuffed Toy Mfg  
 339932 Game, Toy, & Children's Vehicle Mfg  
 33994 Office Supplies (except Paper) Mfg  
 339941 Pen & Mechanical Pencil Mfg  
 339942 Lead Pencil & Art Good Mfg  
 339943 Marking Device Mfg  
 339944 Carbon Paper & Inked Ribbon Mfg  
 33995 Sign Mfg  
 33999 All Other Miscellaneous Mfg  
 339991 Gasket, Packing, & Sealing Device Mfg  
 339992 Musical Instrument Mfg  
 339993 Fastener, Button, Needle, & Pin Mfg  
 339994 Broom, Brush, & Mop Mfg  
 339995 Burial Casket Mfg  
 339999 All Other Miscellaneous Mfg  
 339991 Gasket, Packing, & Sealing Device Mfg

#### Wholesale Trade

##### Wholesale Trade, Durable Goods

42111 Automobile & Other Motor Vehicle Wholesalers  
 42112 Motor Vehicle Supplies  
 & New Parts Wholesalers  
 42113 Tire & Tube Wholesalers  
 42114 Motor Vehicle Parts (Used) Wholesalers  
 42121 Furniture Wholesalers  
 42122 Home Furnishing Wholesalers  
 42131 Lumber, Plywood, Millwork, & Wood Panel  
 Wholesalers  
 42132 Brick, Stone, & Related Construction  
 Material Wholesalers  
 42133 Roofing, Siding, & Insulation Material  
 Wholesalers  
 42139 Other Construction Material Wholesalers  
 42141 Photographic Equipment & Supplies  
 Wholesalers  
 42142 Office Equipment Wholesalers  
 42143 Computer & Computer Peripheral  
 Equipment & Software Wholesalers  
 42144 Other Commercial Equipment Wholesalers  
 42145 Medical, Dental, & Hospital Equipment &  
 Supplies Wholesalers  
 42146 Ophthalmic Goods Wholesalers  
 42149 Other Professional Equipment & Supplies  
 Wholesalers  
 42151 Metal Service Centers & Offices  
 42152 Coal & Other Mineral & Ore Wholesalers  
 42161 Electrical Apparatus & Equipment, Wiring  
 Supplies, & Construction Material  
 Wholesalers  
 42162 Electrical Appliance, Television, & Radio Set  
 Wholesalers  
 42169 Other Electronic Parts  
 & Equipment Wholesalers  
 42171 Hardware Wholesalers  
 42172 Plumbing & Heating Equipment & Supplies  
 (Hydronics) Wholesalers

## Dangerous Waste Annual Report

*SIC Codes, continued*

42173 Warm Air Heating & Air-Conditioning  
Equipment & Supplies Wholesalers  
42174 Refrigeration Equipment  
& Supplies Wholesalers  
42181 Construction & Mining (except Oil Well)  
Machinery & Equipment Wholesalers  
42182 Farm & Garden Machinery  
& Equipment Wholesalers  
42183 Industrial Machinery & Equipment  
Wholesalers  
42184 Industrial Supplies Wholesalers  
42185 Service Establishment Equipment  
& Supplies Wholesalers  
42186 Transportation Equipment & Supplies  
(except Motor Vehicle) Wholesalers  
42191 Sporting & Recreational Goods & Supplies  
Wholesalers  
42192 Toy & Hobby Goods  
& Supplies Wholesalers  
42193 Recyclable Material Wholesalers  
42194 Jewelry, Watch, Precious Stone,  
& Precious Metal Wholesalers  
42199 Other Miscellaneous Durable Goods  
Wholesalers

### **Wholesale Trade, Nondurable Goods**

42211 Printing & Writing Paper Wholesalers  
42212 Stationery & Office Supplies Wholesalers  
42213 Industrial & Personal Service  
Paper Wholesalers  
42221 Drugs & Druggists' Sundries Wholesalers  
42231 Piece Goods, Notions, & Other Dry Goods  
Wholesalers  
42232 Men's & Boys' Clothing & Furnishings  
Wholesalers  
42233 Women's, Children's, & Infants' Clothing &  
Accessories Wholesalers  
42234 Footwear Wholesalers  
42241 General Line Grocery Wholesalers  
42242 Packaged Frozen Food Wholesalers  
42243 Dairy Product (except Dried or Canned)  
Wholesalers  
42244 Poultry & Poultry Product Wholesalers  
42245 Confectionery Wholesalers  
42246 Fish & Seafood Wholesalers  
42247 Meat & Meat Product Wholesalers  
42248 Fresh Fruit & Vegetable Wholesalers  
42249 Other Grocery & Related Products  
Wholesalers  
42251 Grain & Field Bean Wholesalers  
42252 Livestock Wholesalers  
42259 Other Farm Product Raw Material  
Wholesalers  
42261 Plastics Materials & Basic Forms & Shapes  
Wholesalers  
42269 Other Chemical & Allied Products  
Wholesalers

42271 Petroleum Bulk Stations & Terminals  
42272 Petroleum & Petroleum Products  
Wholesalers (except Bulk Stations &  
Terminals)  
42281 Beer & Ale Wholesalers  
42282 Wine & Distilled Alcoholic Beverage  
Wholesalers  
42291 Farm Supplies Wholesalers  
42292 Book, Periodical, & Newspaper  
Wholesalers  
42293 Flower, Nursery Stock, & Florists' Supplies  
Wholesalers  
42294 Tobacco & Tobacco Product Wholesalers  
42295 Paint, Varnish, & Supplies Wholesalers  
42299 Other Miscellaneous Nondurable Goods  
Wholesalers

### **Retail Trade**

#### **Motor Vehicle & Parts Dealers**

44111 New Car Dealers  
44112 Used Car Dealers  
44121 Recreational Vehicle Dealers  
44122 Motorcycle, Boat, & Other Motor Vehicle  
Dealers  
441221 Motorcycle Dealers  
441222 Boat Dealers  
441229 All Other Motor Vehicle Dealers  
44131 Automotive Parts & Accessories Stores  
44132 Tire Dealers

#### **Furniture & Home Furnishings Stores**

44211 Furniture Stores  
44221 Floor Covering Stores  
44229 Other Home Furnishings Stores  
442291 Window Treatment Stores  
442299 All Other Home Furnishings Stores

#### **Electronics & Appliance Stores**

44311 Appliance, Television,  
& Other Electronics Stores  
443111 Household Appliance Stores  
443112 Radio, Television,  
& Other Electronics Stores  
44312 Computer & Software Stores  
44313 Camera & Photographic Supplies Stores

#### **Building Material/Garden Equipment/Supplies Dealers**

44411 Home Centers  
44412 Paint & Wallpaper Stores  
44413 Hardware Stores  
44419 Other Building Material Dealers  
44421 Outdoor Power Equipment Stores  
44422 Nursery & Garden Centers

## Codes

*SIC Codes, continued*

### Food & Beverage Stores

- 44511 Supermarkets & Other Grocery (except Convenience) Stores
- 44512 Convenience Stores
- 44521 Meat Markets
- 44522 Fish & Seafood Markets
- 44523 Fruit & Vegetable Markets
- 44529 Other Specialty Food Stores
- 445291 Baked Goods Stores
- 445292 Confectionery & Nut Stores
- 445299 All Other Specialty Food Stores
- 44531 Beer, Wine, & Liquor Stores

### Health & Personal Care Stores

- 44611 Pharmacies & Drug Stores
- 44612 Cosmetics, Beauty Supplies, & Perfume Stores
- 44613 Optical Goods Stores
- 44619 Other Health & Personal Care Stores
- 446191 Food (Health) Supplement Stores
- 446199 All Other Health & Personal Care Stores

### Gasoline Stations

- 44711 Gasoline Stations with Convenience Stores
- 44719 Other Gasoline Stations

### Clothing & Clothing Accessories Stores

- 44811 Men's Clothing Stores
- 44812 Women's Clothing Stores
- 44813 Children's & Infants' Clothing Stores
- 44814 Family Clothing Stores
- 44815 Clothing Accessories Stores
- 44819 Other Clothing Stores
- 44821 Shoe Stores
- 44831 Jewelry Stores
- 44832 Luggage & Leather Goods Stores

### Sporting Goods, Hobby, Book, & Music Stores

- 45111 Sporting Goods Stores
- 45112 Hobby, Toy, & Game Stores
- 45113 Sewing, Needlework, & Piece Goods Stores
- 45114 Musical Instrument & Supplies Stores
- 45121 Book Stores & News Dealers
- 451211 Book Stores
- 451212 News Dealers & Newsstands
- 45122 Prerecorded Tape, Compact Disc, & Record Stores

### General Merchandise Stores

- 45211 Department Stores
- 45291 Warehouse Clubs & Superstores
- 45299 All Other General Merchandise Stores

### Miscellaneous Store Retailers

- 45311 Florists
- 45321 Office Supplies & Stationery Stores

- 45322 Gift, Novelty, & Souvenir Stores
- 45331 Used Merchandise Stores
- 45391 Pet & Pet Supplies Stores
- 45392 Art Dealers
- 45393 Manufactured (Mobile) Home Dealers
- 45399 All Other Miscellaneous Store Retailers

### Nonstore Retailers

- 45411 Electronic Shopping & Mail-Order Houses
- 45421 Vending Machine Operators
- 45431 Fuel Dealers
- 454311 Heating Oil Dealers
- 454312 Liquefied Petroleum Gas (Bottled Gas) Dealers
- 454319 Other Fuel Dealers
- 45439 Other Direct Selling Establishments

### Transportation & Utilities

#### Air Transportation

- 48111 Scheduled Air Transportation
- 481111 Scheduled Passenger Air Transportation
- 481112 Scheduled Freight Air Transportation
- 48121 Nonscheduled Air Transportation
- 481211 Nonscheduled Chartered Passenger Air Transportation
- 481212 Nonscheduled Chartered Freight Air Transportation
- 481219 Other Nonscheduled Air Transportation

#### Rail Transportation

- 48211 Rail Transportation
- 482111 Line-Haul Railroads

#### Water Transportation

- 48311 Deep Sea, Coastal, & Great Lakes Water Transportation
- 483111 Deep Sea Freight Transportation
- 483112 Deep Sea Passenger Transportation
- 483113 Coastal & Great Lakes Freight Transportation
- 483114 Coastal & Great Lakes Passenger Transportation
- 48321 Inland Water Transportation

#### Truck Transportation

- 48411 General Freight Trucking, Local
- 48412 General Freight Trucking, Long-Distance
- 484121 General Freight Trucking, Long-Distance, Truckload
- 484122 General Freight Trucking, Long-Distance, Less Than Truckload
- 48421 Used Household & Office Goods Moving
- 48422 Specialized Freight (except Used Goods) trucking, Local
- 48423 Specialized Freight (except Used Goods) Trucking, Long-Distance

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## Dangerous Waste Annual Report

*SIC Codes, continued*

### Transit & Ground Passenger Transportation

48511 Urban Transit Systems  
485111 Mixed Mode Transit Systems  
485112 Commuter Rail Systems  
485113 Bus & Other Motor Vehicle Transit Systems  
485119 Other Urban Transit Systems  
48521 Interurban & Rural Bus Transportation  
48531 Taxi Service  
48532 Limousine Service  
48541 School & Employee Bus Transportation  
48551 Charter Bus Industry  
48599 Other Transit & Ground Passenger Transportation  
485991 Special Needs Transportation  
485999 All Other Transit & Ground Passenger Transportation

### Pipeline Transportation

48611 Pipeline Transportation of Crude Oil  
48621 Pipeline Transportation of Natural Gas  
48691 Pipeline Transportation of Refined Petroleum Products  
48699 All Other Pipeline Transportation

### Scenic & Sightseeing Transportation

48711 Scenic & Sightseeing Transportation, Land  
48721 Scenic & Sightseeing Transportation, Water  
48799 Scenic & Sightseeing Transportation, Other

### Support Activities for Transportation

48811 Airport Operations  
488111 Air Traffic Control  
488119 Other Airport Operations  
48819 Other Support Activities for Air Transportation  
48821 Support Activities for Rail Transportation  
48831 Port & Harbor Operations  
48832 Marine Cargo Handling  
48833 Navigational Services to Shipping  
48839 Other Support Activities for Water Transportation  
48841 Motor Vehicle Towing  
48849 Other Support Activities for Road Transportation  
48851 Freight Transportation Arrangement  
48899 Other Support Activities for Transportation  
488991 Packing & Crating  
488999 All Other Support Activities for Transportation

### Postal Service

49111 Postal Service

### Couriers & Messengers

49211 Couriers  
49221 Local Messengers & Local Delivery

### Warehousing & Storage

49311 General Warehousing & Storage  
49312 Refrigerated Warehousing & Storage  
49313 Farm Product Warehousing & Storage  
49319 Other Warehousing & Storage

### Information

#### Publishing Industries

51111 Newspaper Publishers  
51112 Periodical Publishers  
51113 Book Publishers  
51114 Database & Directory Publishers  
51119 Other Publishers  
511191 Greeting Card Publishers  
511199 All Other Publishers  
51121 Software Publishers

#### Motion Picture & Sound Recording Industries

51211 Motion Picture & Video Production  
51212 Motion Picture & Video Distribution  
51213 Motion Picture & Video Exhibition  
512131 Motion Picture Theaters (except Drive-Ins)  
512132 Drive-In Motion Picture Theaters  
51219 Postproduction Services & Other Motion Picture & Video Industries  
512191 Teleproduction & Other Postproduction Services  
512199 Other Motion Picture & Video Industries  
51221 Record Production  
51222 Integrated Record Production/Distribution  
51223 Music Publishers  
51224 Sound Recording Studios  
51229 Other Sound Recording Industries

#### Broadcasting & Telecommunications

51311 Radio Broadcasting  
513111 Radio Networks  
513112 Radio Stations  
51312 Television Broadcasting  
51321 Cable Networks  
51322 Cable & Other Program Distribution  
51331 Wired Telecommunications Carriers  
51332 Wireless Telecommunications Carriers (except Satellite)  
513321 Paging  
513322 Cellular & Other Wireless Telecommunications  
51333 Telecommunications Resellers  
51334 Satellite Telecommunications  
51339 Other Telecommunications

#### Information Services & Data Processing Services

51411 News Syndicates  
51412 Libraries & Archives  
51419 Other Information Services  
514191 On-Line Information Services

514199 All Other Information Services  
51421 Data Processing Services

## Finance, Insurance & Real Estate

### Monetary Authorities - Central Bank

52111 Monetary Authorities - Central Bank

### Credit Intermediation & Related Activities

52211 Commercial Banking  
52212 Savings Institutions  
52213 Credit Unions  
52219 Other Depository Credit Intermediation  
52221 Credit Card Issuing  
52222 Sales Financing  
52229 Other Nondepository Credit Intermediation  
522291 Consumer Lending  
522292 Real Estate Credit  
522293 International Trade Financing  
522294 Secondary Market Financing  
522298 All Other Nondepository  
Credit Intermediation  
52231 Mortgage & Nonmortgage Loan Brokers  
52232 Financial Transactions Processing, Reserve,  
& Clearinghouse Activities  
52239 Other Activities Related to  
Credit Intermediation

### Securities, Commodity Contracts, & Other Financial Investments & Related Activities

52311 Investment Banking & Securities Dealing  
52312 Securities Brokerage  
52313 Commodity Contracts Dealing  
52314 Commodity Contracts Brokerage  
52321 Securities & Commodity Exchanges  
52391 Miscellaneous Intermediation  
52392 Portfolio Management  
52393 Investment Advice  
52399 All Other Financial Investment Activities  
523991 Trust, Fiduciary, & Custody Activities  
523999 Miscellaneous Financial Investment  
Activities

### Insurance Carriers & Related Activities

52411 Direct Life, Health, & Medical Insurance  
Carriers  
524113 Direct Life Insurance Carriers  
524114 Direct Health & Medical Insurance Carriers  
52412 Direct Insurance (except Life, Health, &  
Medical) Carriers  
524126 Direct Property & Casualty Insurance  
Carriers  
524127 Direct Title Insurance Carriers  
524128 Other Direct Insurance (except Life, Health,  
& Medical) Carriers  
52413 Reinsurance Carriers  
52421 Insurance Agencies & Brokerages

52429 Other Insurance Related Activities  
524291 Claims Adjusting  
524292 Third Party Administration of Insurance &  
Pension Funds  
524298 All Other Insurance Related Activities

### Funds, Trusts, & Other Financial Vehicles

52511 Pension Funds  
52512 Health & Welfare Funds  
52519 Other Insurance Funds  
52591 Open-End Investment Funds  
52592 Trusts, Estates, & Agency Accounts  
52593 Real Estate Investment Trusts  
52599 Other Financial Vehicles

### Real Estate

53111 Lessors of Residential Buildings  
& Dwellings  
53112 Lessors of Nonresidential Buildings  
(except Miniwarehouses)  
53113 Lessors of Miniwarehouses  
& Self-Storage Units  
53119 Lessors of Other Real Estate Property  
53121 Offices of Real Estate Agents & Brokers  
53131 Real Estate Property Managers  
531311 Residential Property Managers  
531312 Nonresidential Property Managers  
53132 Offices of Real Estate Appraisers  
53139 Other Activities Related to Real Estate

### Rental & Leasing Services

53211 Passenger Car Rental & Leasing  
532111 Passenger Car Rental  
532112 Passenger Car Leasing  
53212 Truck, Utility Trailer, & RV (Recreational  
Vehicle) Rental & Leasing  
53221 Consumer Electronics & Appliances Rental  
53222 Formal Wear & Costume Rental  
53223 Video Tape & Disc Rental  
53229 Other Consumer Goods Rental  
532291 Home Health Equipment Rental  
532292 Recreational Goods Rental  
532299 All Other Consumer Goods Rental  
53231 General Rental Centers  
53241 Construction, Transportation, Mining, &  
Forestry Machinery & Equipment Rental  
& Leasing  
532411 Commercial Air, Rail, & Water  
Transportation Equipment Rental & Leasing  
532412 Construction, Mining, & Forestry Machinery  
& Equipment Rental & Leasing  
53242 Office Machinery & Equipment Rental  
& Leasing  
53249 Other Commercial & Industrial Machinery  
& Equipment Rental & Leasing

## Dangerous Waste Annual Report

*SIC Codes, continued*

### **Lessors of Nonfinancial Intangible Assets (except Copyrighted Works)**

53311 Lessors of Nonfinancial Intangible Assets  
(except Copyrighted Works)

### **Services**

#### **Professional, Scientific, & Technical Services**

54111 Offices of Lawyers  
54112 Offices of Notaries  
54119 Other Legal Services  
541191 Title Abstract & Settlement Offices  
541199 All Other Legal Services  
54121 Accounting, Tax Preparation, Bookkeeping,  
& Payroll Services  
541211 Offices of Certified Public Accountants  
541213 Tax Preparation Services  
541214 Payroll Services  
541219 Other Accounting Services  
54131 Architectural Services  
54132 Landscape Architectural Services  
54133 Engineering Services  
54134 Drafting Services  
54135 Building Inspection Services  
54136 Geophysical Surveying & Mapping Services  
54137 Surveying & Mapping (except Geophysical)  
Services  
54138 Testing Laboratories  
54141 Interior Design Services  
54142 Industrial Design Services  
54143 Graphic Design Services  
54149 Other Specialized Design Services  
54151 Computer Systems Design & Related  
Services  
541511 Custom Computer Programming Services  
541512 Computer Systems Design Services  
541513 Computer Facilities Management Services  
541519 Other Computer Related Services  
54161 Management Consulting Services  
541611 Administrative Management & General  
Management Consulting Services  
541612 Human Resources & Executive Search  
Consulting Services  
541613 Marketing Consulting Services  
541614 Process, Physical Distribution, & Logistics  
Consulting Services  
541618 Other Management Consulting Services  
54162 Environmental Consulting Services  
54169 Other Scientific & Technical Consulting  
Services  
54171 Research & Development in the Physical,  
Engineering, & Life Sciences  
54172 Research & Development in the Social  
Sciences & Humanities  
54181 Advertising Agencies  
54182 Public Relations Agencies

54183 Media Buying Agencies  
54184 Media Representatives  
54185 Display Advertising  
54186 Direct Mail Advertising  
54187 Advertising Material Distribution Services  
54189 Other Services Related to Advertising  
54191 Marketing Research & Public Opinion  
Polling  
54192 Photographic Services  
541921 Photography Studios, Portrait  
541922 Commercial Photography  
54193 Translation & Interpretation Services  
54194 Veterinary Services  
54199 All Other Professional, Scientific,  
& Technical Services

#### **Management of Companies & Enterprises**

55111 Management of Companies & Enterprises  
551111 Offices of Bank Holding Companies  
551112 Offices of Other Holding Companies  
551114 Corporate, Subsidiary,  
& Regional Managing Offices

#### **Administrative & Support Services**

56111 Office Administrative Services  
56121 Facilities Support Services  
56131 Employment Placement Agencies  
56132 Temporary Help Services  
56133 Employee Leasing Services  
56141 Document Preparation Services  
56142 Telephone Call Centers  
561421 Telephone Answering Services  
561422 Telemarketing Bureaus  
56143 Business Service Centers  
561431 Private Mail Centers  
561439 Other Business Service Centers (including  
Copy Shops)  
56144 Collection Agencies  
56145 Credit Bureaus  
56149 Other Business Support Services  
561491 Repossession Services  
561492 Court Reporting & Stenotype Services  
561499 All Other Business Support Services  
56151 Travel Agencies  
56152 Tour Operators  
56159 Other Travel Arrangement & Reservation  
Services  
561591 Convention & Visitors Bureaus  
561599 All Other Travel Arrangement & Reservation  
Services  
56161 Investigation, Guard, & Armored Car  
Services  
561611 Investigation Services  
561612 Security Guards & Patrol Services  
561613 Armored Car Services  
56162 Security Systems Services

CODES

561621 Security Systems Services  
(except Locksmiths)  
561622 Locksmiths  
56171 Exterminating & Pest Control Services  
56172 Janitorial Services  
56173 Landscaping Services  
56174 Carpet & Upholstery Cleaning Services  
56179 Other Services to Buildings & Dwellings  
56191 Packaging & Labeling Services  
56192 Convention & Trade Show Organizers  
56199 All Other Support Services

**Waste Management & Remediation Services**

56211 Waste Collection  
562111 Solid Waste Collection  
562112 Hazardous Waste Collection  
562119 Other Waste Collection  
56221 Waste Treatment & Disposal  
562211 Hazardous Waste Treatment & Disposal  
562212 Solid Waste Landfill  
562213 Solid Waste Combustors & Incinerators  
562219 Other Nonhazardous Waste Treatment & Disposal  
56291 Remediation Services  
56292 Materials Recovery Facilities  
56299 All Other Waste Management Services  
562991 Septic Tank & Related Services  
562998 All Other Miscellaneous Waste Management Services

**Educational Services**

61111 Elementary & Secondary Schools  
61121 Junior Colleges  
61131 Colleges, Universities, & Professional Schools  
61141 Business & Secretarial Schools  
61142 Computer Training  
61143 Professional & Management Development Training  
61151 Technical & Trade Schools  
611511 Cosmetology & Barber Schools  
611512 Flight Training  
611513 Apprenticeship Training  
611519 Other Technical & Trade Schools  
61161 Fine Arts Schools  
61162 Sports & Recreation Instruction  
61163 Language Schools  
61169 All Other Schools & Instruction  
611691 Exam Preparation & Tutoring  
611692 Automobile Driving Schools  
611699 All Other Miscellaneous Schools & Instruction  
61171 Educational Support Services

**Ambulatory Health Care Services**

62111 Offices of Physicians

621111 Offices of Physicians (except Mental Health Specialists)  
621112 Offices of Physicians, Mental Health Specialists  
62121 Offices of Dentists  
62131 Offices of Chiropractors  
62132 Offices of Optometrists  
62133 Offices of Mental Health Practitioners (except Physicians)  
62134 Offices of Physical, Occupational & Speech Therapists, & Audiologists  
62139 Offices of All Other Health Practitioners  
621391 Offices of Podiatrists  
621399 Offices of All Other Miscellaneous Health Practitioners  
62141 Family Planning Centers  
62142 Outpatient Mental Health & Substance Abuse Centers  
62149 Other Outpatient Care Centers  
621491 HMO Medical Centers  
621492 Kidney Dialysis Centers  
621493 Freestanding Ambulatory Surgical & Emergency Centers  
621498 All Other Outpatient Care Centers  
62151 Medical & Diagnostic Laboratories  
621511 Medical Laboratories  
621512 Diagnostic Imaging Centers  
62161 Home Health Care Services  
62191 Ambulance Services  
62199 All Other Ambulatory Health Care Services  
621991 Blood & Organ Banks  
621999 All Other Miscellaneous Ambulatory Health Care Services

**Hospitals**

62211 General Medical & Surgical Hospitals  
62221 Psychiatric & Substance Abuse Hospitals  
62231 Specialty (except Psychiatric & Substance Abuse) Hospitals

**Nursing & Residential Care Facilities**

62311 Nursing Care Facilities  
62321 Residential Mental Retardation Facilities  
62322 Residential Mental Health & Substance Abuse Facilities  
62331 Community Care Facilities for the Elderly  
623311 Continuing Care Retirement Communities  
623312 Homes for the Elderly  
62399 Other Residential Care Facilities

**Social Assistance**

62411 Child & Youth Services  
62412 Services for the Elderly & Persons with Disabilities  
62419 Other Individual & Family Services  
62421 Community Food Services  
62422 Community Housing Services

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## Dangerous Waste Annual Report

*SIC Codes, continued*

- 624221 Temporary Shelters
- 624229 Other Community Housing Services
- 62423 Emergency & Other Relief Services
- 62431 Vocational Rehabilitation Services
- 62441 Child Day Care Services

### Performing Arts, Spectator Sports, & Related Industries

- 71111 Theater Companies & Dinner Theaters
- 71112 Dance Companies
- 71113 Musical Groups & Artists
- 71119 Other Performing Arts Companies
- 71121 Spectator Sports
- 711211 Sports Teams & Clubs
- 711212 Racetracks
- 711219 Other Spectator Sports
- 71131 Promoters of Performing Arts, Sports, & Similar Events with Facilities
- 71132 Promoters of Performing Arts, Sports, & Similar Events without Facilities
- 71141 Agents & Managers for Artists, Athletes, Entertainers, & Other Public Figures
- 71151 Independent Artists, Writers, & Performers

### Museums, Historical Sites, & Similar Institutions

- 71211 Museums
- 71212 Historical Sites
- 71213 Zoos & Botanical Gardens
- 71219 Nature Parks & Other Similar Institutions

### Amusement, Gambling, & Recreation Industries

- 71311 Amusement & Theme Parks
- 71312 Amusement Arcades
- 71321 Casinos (except Casino Hotels)
- 71329 Other Gambling Industries
- 71391 Golf Courses & Country Clubs
- 71392 Skiing Facilities
- 71393 Marinas
- 71394 Fitness & Recreational Sports Centers
- 71395 Bowling Centers
- 71399 All Other Amusement & Recreation Industries

### Accommodation

- 72111 Hotels (except Casino Hotels) & Motels
- 72112 Casino Hotels
- 72119 Other Traveler Accommodation
- 721191 Bed-and-Breakfast Inns
- 721199 All Other Traveler Accommodation
- 72121 RV (Recreational Vehicle) Parks & Recreational Camps
- 721211 RV (Recreational Vehicle) Parks & Campgrounds
- 721214 Recreational & Vacation Camps (except Campgrounds)
- 72131 Rooming & Boarding Houses

### Food Services & Drinking Places

- 72211 Full-Service Restaurants
- 72221 Limited-Service Eating Places
- 722211 Limited-Service Restaurants
- 722212 Cafeterias
- 722213 Snack & Nonalcoholic Beverage Bars
- 72231 Food Service Contractors
- 72232 Caterers
- 72233 Mobile Food Services
- 72241 Drinking Places (Alcoholic Beverages)

### Repair & Maintenance

- 81111 Automotive Mechanical & Electrical Repair & Maintenance
  - 811111 General Automotive Repair
  - 811112 Automotive Exhaust System Repair
  - 811113 Automotive Transmission Repair
  - 811118 Other Automotive Mechanical & Electrical Repair & Maintenance
- 81112 Automotive Body, Paint, Interior, & Glass Repair
  - 811121 Automotive Body, Paint, & Interior Repair & Maintenance
  - 811122 Automotive Glass Replacement Shops
- 81119 Other Automotive Repair & Maintenance
  - 811191 Automotive Oil Change & Lubrication Shops
  - 811192 Car Washes
- 811198 All Other Automotive Repair & Maintenance
- 81121 Electronic & Precision Equipment Repair & Maintenance
  - 811211 Consumer Electronics Repair & Maintenance
  - 811212 Computer & Office Machine Repair & Maintenance
  - 811213 Communication Equipment Repair & Maintenance
  - 811219 Other Electronic & Precision Equipment Repair & Maintenance
- 81131 Commercial & Industrial Machinery & Equipment (except Automotive & Electronic) Repair & Maintenance
  - 81141 Home & Garden Equipment & Appliance Repair & Maintenance
  - 811411 Home & Garden Equipment Repair & Maintenance
  - 811412 Appliance Repair & Maintenance
  - 81142 Reupholstery & Furniture Repair
  - 81143 Footwear & Leather Goods Repair
  - 81149 Other Personal & Household Goods Repair & Maintenance

### Personal & Laundry Services

- 81211 Hair, Nail, & Skin Care Services
  - 812111 Barber Shops
  - 812112 Beauty Salons

## SIC Codes, continued

812113 Nail Salons  
 81219 Other Personal Care Services  
 812191 Diet & Weight Reducing Centers  
 812199 Other Personal Care Services  
 81221 Funeral Homes & Funeral Services  
 81222 Cemeteries & Crematories  
 81231 Coin-Operated Laundries & Drycleaners  
 81232 Drycleaning & Laundry Services (except Coin-Operated)  
 81233 Linen & Uniform Supply  
 812331 Linen Supply  
 812332 Industrial Launderers  
 81291 Pet Care (except Veterinary) Services  
 81292 Photofinishing  
 812921 Photofinishing Laboratories (except One-Hour)  
 812922 One-Hour Photofinishing  
 81293 Parking Lots & Garages  
 81299 All Other Personal Services

**Religious, Grantmaking, Civic, Professional, & Similar Organizations**

81311 Religious Organizations  
 81321 Grantmaking & Giving Services  
 813211 Grantmaking Foundations  
 813212 Voluntary Health Organizations  
 813219 Other Grantmaking & Giving Services  
 81331 Social Advocacy Organizations  
 813311 Human Rights Organizations  
 813312 Environment, Conservation & Wildlife Organizations  
 813319 Other Social Advocacy Organizations  
 81341 Civic & Social Organizations  
 81391 Business Associations  
 81392 Professional Organizations  
 81393 Labor Unions & Similar Labor Organizations  
 81394 Political Organizations  
 81399 Other Similar Organizations (except Business, Professional, Labor, & Political Organizations)

**Private Households**

81411 Private Households

**Public Administration****Executive, Legislative, & Other General Government Support**

92111 Executive Offices  
 92112 Legislative Bodies  
 92113 Public Finance Activities  
 92114 Executive & Legislative Offices, Combined  
 92115 American Indian & Alaska Native Tribal Governments  
 92119 Other General Government Support

**Justice, Public Order, & Safety Activities**

92211 Courts  
 92212 Police Protection  
 92213 Legal Counsel & Prosecution  
 92214 Correctional Institutions  
 92215 Parole Offices & Probation Offices  
 92216 Fire Protection  
 92219 Other Justice, Public Order, & Safety Activities

**Administration of Human Resource Programs**

92311 Administration of Education Programs  
 92312 Administration of Public Health Programs  
 92313 Administration of Human Resource Programs (except Education, Public Health, & Veterans' Affairs Programs)  
 92314 Administration of Veterans' Affairs

**Administration of Environmental Quality Programs**

92411 Administration of Air & Water Resource & Solid Waste Management Programs  
 92412 Administration of Conservation Programs

**Administration of Housing Programs, Urban Planning, & Community Development**

92511 Administration of Housing Programs  
 92512 Administration of Urban Planning & Community & Rural Development

**Administration of Economic Programs**

92611 Administration of General Economic Programs  
 92612 Regulation & Administration of Transportation Programs  
 92613 Regulation & Administration of Communications, Electric, Gas, & Other Utilities  
 92614 Regulation of Agricultural Marketing & Commodities  
 92615 Regulation, Licensing, & Inspection of Miscellaneous Commercial Sectors

**Space Research & Technology**

92711 Space Research & Technology

**National Security & International Affairs**

92811 National Security  
 92812 International Affairs

## Source Codes

### Cleaning and Degreasing

- A01 Stripping
- A02 Acid cleaning
- A03 Caustic (Alkali) cleaning
- A04 Flush rinsing
- A05 Dip rinsing
- A06 Spray rinsing
- A07 Vapor degreasing
- A08 Physical scraping and removal
- A09 Clean out process equipment
- A19 Other cleaning and degreasing

### Surface Preparation and Finishing

- A21 Painting
- A22 Electroplating
- A23 Electroless plating
- A24 Phosphating
- A25 Heat treating
- A26 Pickling
- A27 Etching
- A29 Other surface coating/preparation (Specify in Comments)

### Processes Other Than Surface Preparation

- A31 Product rinsing
- A32 Product filtering
- A33 Product distillation
- A34 Product solvent extraction
- A35 By-product processing
- A36 Spent catalyst removal
- A37 Spent process liquids removal
- A38 Tank sludge removal
- A39 Slag removal
- A40 Metal forming
- A41 Plastics forming
- A49 Other processes other than surface preparation (Specify in Comments)

### Production or Service Derived One-Time and Intermittent Processes

- A51 Leak collection
- A53 Cleanup of spill residues
- A54 Oil changes
- A55 Filter/Battery replacement
- A56 Discontinue use of process equipment
- A57 Discarding off-spec material

- A58 Discarding out-of-date products or chemicals
- A59 Other production-derived one-time and intermittent processes
- A60 Sludge removal

### Remediation Derived Waste

- A61 Superfund Remedial Action
- A62 Superfund Emergency Response
- A63 RCRA Corrective Action at solid waste management unit
- A64 RCRA closure of hazardous waste management unit
- A65 Underground storage tank cleanup
- A69 Other remediation

### Pollution Control or Waste Treatment Processes

- A71 Filtering/screening
- A72 Metals recovery
- A73 Solvents recovery
- A74 Incineration/thermal treatment
- A75 Wastewater treatment
- A76 Sludge dewatering
- A77 Stabilization
- A78 Air pollution control devices
- A79 Leachate collection
- A80 Storage/transfer
- A89 Other pollution control or waste treatment

### Other Processes

- A91 Clothing and personal protective equipment
- A92 Routine cleanup wastes (e.g., floor sweepings)
- A93 Closure of management unit(s) or equipment other than by remediation specified in codes A61 - A69
- A94 Laboratory wastes
- A99 Other

## Form Codes

### LAB PACKS

Lab packs of mixed wastes, chemicals, lab wastes

B009 Lab packs

### LIQUIDS

**Inorganic liquids** — Waste that is primarily inorganic and highly fluid (e.g., aqueous), with low suspended inorganic solids and low organic content

- B101 Aqueous waste with low solvents
- B102 Aqueous waste with low other toxic organics
- B103 Spent acid with metals
- B104 Spent acid without metals
- B105 Acidic aqueous waste
- B106 Caustic solution with metals but no cyanides
- B107 Caustic solution with metals and cyanides
- B108 Caustic solution with cyanides but no metals
- B109 Spent caustic
- B110 Caustic aqueous waste
- B111 Aqueous waste with reactive sulfides
- B112 Aqueous waste with other reactives (e.g., explosives)
- B113 Other aqueous waste with high dissolved solids
- B114 Other aqueous waste with low dissolved solids
- B115 Scrubber water
- B116 Leachate
- B117 Waste liquid mercury
- B119 Other inorganic liquids (Specify in Comments)

**Organic liquids** — Waste that is primarily organic and is highly fluid, with low inorganic solids content and low-to-moderate water content

- B201 Concentrated solvent-water solution
- B202 Halogenated (e.g., chlorinated) solvent
- B203 Nonhalogenated solvent
- B204 Halogenated/nonhalogenated solvent mixture
- B205 Oil-water emulsion or mixture
- B206 Waste oil
- B207 Concentrated aqueous solution of other organics
- B208 Concentrated phenolics
- B209 Organic paint, ink, lacquer, or varnish
- B210 Adhesives or epoxies

- B211 Paint thinner or petroleum distillates
- B212 Reactive or polymerizable organic liquid
- B219 Other organic liquids (Specify in Comments)

### SOLIDS

**Inorganic solids** — Waste that is primarily inorganic and solid, with low organic content and low-to-moderate water content; not pumpable

- B301 Soil contaminated with organics
- B302 Soil contaminated with inorganics only
- B303 Ash, slag, or other residue from incineration of wastes
- B304 Other “dry” ash, slag, or thermal residue
- B305 “Dry” lime or metal hydroxide solids chemically “fixed”
- B306 “Dry” lime or metal hydroxide solids not “fixed”
- B307 Metal scale, filings, or scrap
- B308 Empty or crushed metal drums or containers
- B309 Batteries or battery parts, casings, cores
- B310 Spent solid filters or adsorbents
- B311 Asbestos solids and debris
- B312 Metal-cyanide salts/chemicals
- B313 Reactive cyanide salts/chemicals
- B314 Reactive sulfide salts/chemicals
- B315 Other reactive salts/chemicals
- B316 Other metal salts/chemicals
- B319 Other waste inorganic solids (Specify in Comments)

**Organic solids** — Waste that is primarily organic and solid, with low-to-moderate inorganic content and water content; not pumpable

- B401 Halogenated pesticide solid
- B402 Nonhalogenated pesticide solid
- B403 Solid resins or polymerized organics
- B404 Spent carbon
- B405 Reactive organic solid
- B406 Empty fiber or plastic containers
- B407 Other halogenated organic solids (Specify in Comments)
- B409 Other nonhalogenated organic solids (Specify in Comments)

Form Codes, continued

## SLUDGES

**Inorganic sludges** — Waste that is primarily inorganic, with moderate-to-high water content and low organic content, and pumpable

- B501 Lime sludge without metals
- B502 Lime sludge with metals/metal hydroxide sludge
- B503 Wastewater treatment sludge with toxic organics
- B504 Other wastewater treatment sludge
- B505 Untreated plating sludge without cyanides
- B506 Untreated plating sludge with cyanides
- B507 Other sludge with cyanides
- B508 Sludge with reactive sulfides
- B509 Sludge with other reactives
- B510 Degreasing sludge with metal scale or filings
- B511 Air pollution control device sludge (e.g., fly ash, wet scrubber sludge)
- B512 Sediment or lagoon dragout contaminated with organics
- B513 Sediment or lagoon dragout contaminated with inorganics only
- B514 Drilling mud
- B515 Asbestos slurry or sludge
- B516 Chloride or other brine sludge
- B519 Other inorganic sludges (Specify in Comments)

**Organic sludges** — Waste that is primarily organic with low-to-moderate inorganic solids content and water content, and pumpable

- B601 Still bottoms of halogenated (e.g., chlorinated) solvents or other organic liquids
- B602 Still bottoms of nonhalogenated solvents or other organic liquids
- B603 Oily sludge
- B604 Organic paint or ink sludge
- B605 Reactive or polymerizable organics
- B606 Resins, tars, or tarry sludge
- B607 Biological treatment sludge
- B608 Sewage or other untreated biological sludge

B609 Other organic sludges (Specify in Comments)

## GASES

**Inorganic gases** — Waste that is primarily inorganic with a low organic content and is a gas at atmospheric pressure

B701 Inorganic gases

**Organic gases** — Waste that is primarily organic with low-to-moderate inorganic content and is a gas at atmospheric pressure

B801 Organic gases

## Origin Codes

### Code    Origin

- i      The waste stream is recurrent: it was generated on-site from a production process, a service activity, or a routine cleanup (including off-specification or spent chemicals).
- ii     The waste stream is non-recurrent: it is the result of a spill cleanup, equipment decommissioning, or other remedial cleanup activity.
- iii    The waste stream is a residual derived from the management of a non-dangerous waste.
- iv     The waste stream is a storage/transfer waste. *(Please review page 21, Book 1, for more information on reporting storage/transfer activities.)*
- v      The waste stream is a residual derived from the management of a previously existing dangerous waste stream.



## System Codes

### Metals Recovery (for Reuse)

- M011 High temperature metals recovery
- M012 Retorting
- M013 Secondary smelting
- M014 Other metals recovery for reuse: e.g., ion exchange, reverse osmosis, acid leaching, etc. (Specify in Comments)
- M019 Metals recovery - type unknown

### Solvents Recovery

- M021 Fractionation/distillation
- M022 Thin film evaporation
- M023 Solvent extraction
- M024 Other solvent recovery (Specify in Comments)
- M029 Solvents recovery - type unknown

### Other Recovery

- M031 Acid regeneration
- M032 Other recovery: e.g., waste oil recovery, nonsolvent organics recovery, etc. (Specify in Comments)
- M039 Other recovery - type unknown

### Incineration

- M041 Incineration - liquids
- M042 Incineration - sludges
- M043 Incineration - solids
- M044 Incineration - gases
- M049 Incineration - type unknown

### Energy Recovery (Reuse as Fuel)

- M051 Energy recovery – liquids
- M052 Energy recovery – sludges
- M053 Energy recovery – solids
- M059 Energy recovery – type unknown

### Fuel Blending

- M061 Fuel blending

### Aqueous Inorganic Treatment

- M071 Chromium reduction followed by chemical precipitation
- M072 Cyanide destruction followed by chemical precipitation
- M073 Cyanide destruction only
- M074 Chemical oxidation followed by chemical precipitation
- M075 Chemical oxidation only
- M076 Wet air oxidation

- M077 Chemical precipitation
- M078 Other aqueous inorganic treatment: e.g., ion exchange, reverse osmosis, etc. (Specify in Comments)
- M079 Aqueous inorganic treatment - type unknown

### Aqueous Organic Treatment

- M081 Biological treatment
- M082 Carbon adsorption
- M083 Air/steam stripping
- M084 Wet air oxidation
- M085 Other aqueous organic treatment (Specify in Comments)
- M089 Aqueous organic treatment - type unknown

### Aqueous Organic and Inorganic Treatment

- M091 Chemical precipitation in combination with biological treatment
- M092 Chemical precipitation in combination with carbon adsorption
- M093 Wet air oxidation
- M094 Other organic/inorganic treatment (Specify in Comments)
- M099 Aqueous organic and inorganic treatment - type unknown

### Sludge Treatment

- M101 Sludge dewatering
- M102 Addition of excess lime
- M103 Absorption/adsorption
- M104 Solvent extraction
- M109 Sludge treatment - type unknown

### Stabilization

- M111 Stabilization/Chemical fixation using cementitious and/or pozzolanic materials
- M112 Other stabilization (Specify in Comments)
- M119 Stabilization – type unknown

### Other Treatment

- M121 Neutralization only
- M122 Evaporation only
- M123 Settling/clarification only
- M124 Phase separation (e.g., emulsion breaking, filtration) only

*System Codes, continued*

- M125 Other treatment (Specify in Comments)
- M129 Other treatment – type unknown

**Disposal**

- M131 Land treatment/application/farming
- M132 Landfill
- M133 Surface impoundment (to be closed as a landfill)
- M134 Deepwell/underground injection
- M135 Discharge to sewer/POTW
- M136 Discharge to surface water under NPDES
- M137 Other disposal (Specify in Comments)

**TSDR Facility Storage/Transfer**

- M141 Storage/transfer: waste was received from off-site and was transferred off-site without receiving any on-site treatment, disposal, or recycling activity; waste was received from off-site for permitted storage activity before ultimate treatment/disposal/recycling.
- M142 Extended storage: this code is to be used only by TSDRs that hold storage permits and conduct extended storage, as defined on page 24.

# QUANTITY EXCLUSION LIMITS (QELs)

**DW** = Dangerous Waste  
**EHW** = Extremely Hazardous Waste

DANGEROUS WASTE NUMBERS	DESIGNATION	QEL in lbs.	NOTES
D001	DW	220	
D002	DW	"	
D003	DW	"	
D004- D043	DW	220	Designation depends on concentration; see WAC 173-303-090.
F001	DW	220	
F002	DW	"	
F003	DW	"	
F004	DW	"	
F005	DW	"	
F006	DW	"	
F007	DW	"	
F008	DW	"	
F009	DW	"	
F010	DW	"	
F011	DW	"	
F012	DW	"	
F019	DW	"	
F020	DW	2.2 or 220	See Footnote 1
F021	DW	"	"
F022	DW	"	"
F023	DW	"	"
F024	DW	220	
F025	DW	"	
F026	DW	2.2 or 220	See Footnote 1
F027	DW	"	"
F028	DW	220	
F032	DW	"	
F034	DW	"	
F035	DW	"	
F037	DW	"	
F038	DW	"	
F039	DW	"	
K001	DW	220	
K002	DW	"	
K003	DW	"	
K004	DW	"	

DANGEROUS WASTE NUMBERS	DESIGNATION	QEL in lbs.	NOTES
K005	DW	220	
K006	DW	"	
K007	DW	"	
K008	DW	"	
K009	DW	"	
K010	DW	"	
K011	DW	"	
K013	DW	"	
K014	DW	"	
K015	DW	"	
K016	DW	"	
K017	DW	"	
K018	DW	"	
K019	DW	"	
K020	DW	"	
K021	DW	"	
K022	DW	"	
K023	DW	"	
K024	DW	"	
K025	DW	"	
K026	DW	"	
K027	DW	"	
K028	DW	"	
K029	DW	"	
K030	DW	"	
K031	DW	"	
K032	DW	"	
K033	DW	"	
K034	DW	"	
K035	DW	"	
K036	DW	"	
K037	DW	"	
K038	DW	"	
K039	DW	"	
K040	DW	"	
K041	DW	"	
K042	DW	"	
K043	DW	"	

DANGEROUS WASTE NUMBERS	DESIGNATION	QEL in lbs.	NOTES
K044	DW	220	
K045	DW	"	
K046	DW	"	
K047	DW	"	
K048	DW	"	
K049	DW	"	
K050	DW	"	
K051	DW	"	
K052	DW	"	
K060	DW	"	
K061	DW	"	
K062	DW	"	
K064	DW	"	
K065	DW	"	
K066	DW	"	
K069	DW	"	
K071	DW	"	
K073	DW	"	
K083	DW	"	
K084	DW	"	
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K100	DW	"	
K101	DW	"	
K102	DW	"	
K103	DW	"	
K104	DW	"	
K105	DW	"	
K106	DW	"	
K107	DW	"	
K108	DW	"	
K109	DW	"	
K110	DW	"	

DANGEROUS WASTE NUMBERS	DESIGNATION	QEL in lbs.	NOTES
K111	DW	220	
K112	DW	"	
K113	DW	"	
K114	DW	"	
K115	DW	"	
K116	DW	"	
K117	DW	"	
K118	DW	"	
K123	DW	"	
K124	DW	"	
K125	DW	"	
K126	DW	"	
K131	DW	"	
K132	DW	"	
K136	DW	"	
K141	DW	"	
K142	DW	"	
K143	DW	"	
K144	DW	"	
K145	DW	"	
K146	DW	"	
K147	DW	"	
K148	DW	"	
K149	DW	"	
K150	DW	"	
K151	DW	"	
K156	DW	"	
K157	DW	"	
K158	DW	"	
K159	DW	"	
K161	DW	"	
K169	DW	"	
K170	DW	"	
K171	DW	"	
K172	DW	"	
P codes	DW	2.2 or 220	See Footnote 2
U codes	DW	220	See Footnote 3

## Dangerous Waste Annual Report

DANGEROUS WASTE NUMBERS	DESIGNATION	QEL in lbs.	NOTES
W001	DW	220	(PCB > 2 ppm) generated from certain specific source; see WAC 173-303-9904 and WAC 173-303- 071(3)(k)
WT01	EHW	2.2	Number applies to wastes designated through Washington State only Toxicity Criteria; See WAC 173-303-100. Toxicity range and quantity will affect the QEL.
WT02	DW	220	"
WP01	EHW		Number applies to wastes designated through Washington State only Persistence Criteria. See WAC 173-303-100. Toxicity range quantity will affect the QEL.
WP02	DW	"	"
WP03	EHW	"	"
WSC2	DW	"	Number applies to Washington State only Characteristic of Solid Corrosive. See WAC 173-303-090-(6)(b)(ii).
WL01	EHW	2.2 or 220	Number applies to
WL02	DW"	" "	Labpacks (Over- packed Containers)
If one waste in a			labpack designates as EHW, then the entire labpack must design- ate as EHW, with WL01 waste number. The QEL of the entire labpack must reflect the most stringent QEL of any single waste in the labpack.

### Footnotes:

1. For wastes listed with the dangerous waste numbers F020, F021, F022, F023, F026 or F027, the quantity exclusion limit varies. It is 2.2 pounds (1kg) per month or per batch for wastes with these codes. It is 220 pounds (100) kg per month or per batch when the waste is a residue or contaminated soil, waste or other debris resulting from the cleanup of a spill of waste with the F020-F023 or F026-F027 codes.
2. For numbers beginning with "P" on the discarded chemical product list in WAC 173-303-9903 the quantity exclusion limit varies. It is 2.2 pounds (1kg) per month or per batch for discarded chemicals or for containers or inner liners that have held wastes with these codes – unless they have been emptied per the description in WAC 173-303-160 (2). It is 220 pounds (100) kg per month or per batch when the waste is a residue or contaminated soil, water or other debris resulting from the cleanup of a spill of a waste with the same "P" codes.
3. For numbers beginning with "U" on the discarded chemical product list in WAC 173-303-9903 the quantity exclusion limit is always 220 pounds (100) kg per month or per batch.

Ecology's Website: [www.ecy.wa.gov/programs/hwtr](http://www.ecy.wa.gov/programs/hwtr)

Regional Office phone numbers:

